

FD-30A

SERVICE MANUAL

*US Model
Canadian Model*



watchman

SPECIFICATIONS

TV standard	American TV standards
TV channel coverage	VHF channel 2-13 UHF channels 14-83
Radio frequency range	FM 88-108 MHz AM 530-1,605 kHz
Antenna	VHF/UHF/FM: telescopic antenna FM: headphone cord antenna AM: built-in ferrite bar antenna
Picture tube	5-cm (2-inch) picture measured diagonally
Speaker	Approx. 3.6 cm (1.4 inches) dia.
Input	Video input jack (minijack) 1 V (p-p), 75 ohms unbalanced, sync negative
Output	Headphones jack (stereo minijack) load impedance 8-300 ohms

Battery life

Watching TV or listening to the radio at a normal sound level and normal temperatures, you can expect the following batteries to last for:

Battery	TV	Radio
Sony Eveready AM3 alkaline batteries or Eveready No. E91 alkaline batteries	approx. 3	approx. 28

(hours)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

Power requirements

6 V dc:

Batteries

four size AA alkaline batteries (IEC designation LR6)
BP-23 rechargeable battery pack (optional)
DC IN 6 V jack accepts:
AC-129WA ac power adaptor (optional)
for use on 120 V ac, 60 Hz
DCC-127A car battery cord (optional)
for use on 12 V car battery
Battery case (optional)
EBP-6 for use on four size C alkaline batteries (IEC designation LR14)
Approx. 85×171×39.8 mm (w/h/d)
(3³/₈×6³/₄×1⁵/₈ inches)
incl. projecting parts and controls
Approx. 83×166×35 mm (w/h/d)
(3³/₈×6⁵/₈×1⁷/₁₆ inches)
not incl. projecting parts and controls

Dimensions

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

FLAT B/W TV-FM STEREO/AM RECEIVER

SONY®

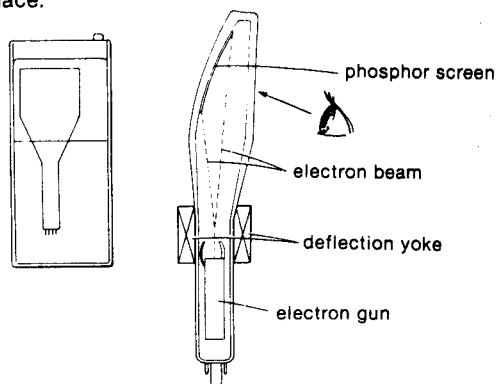
B&W



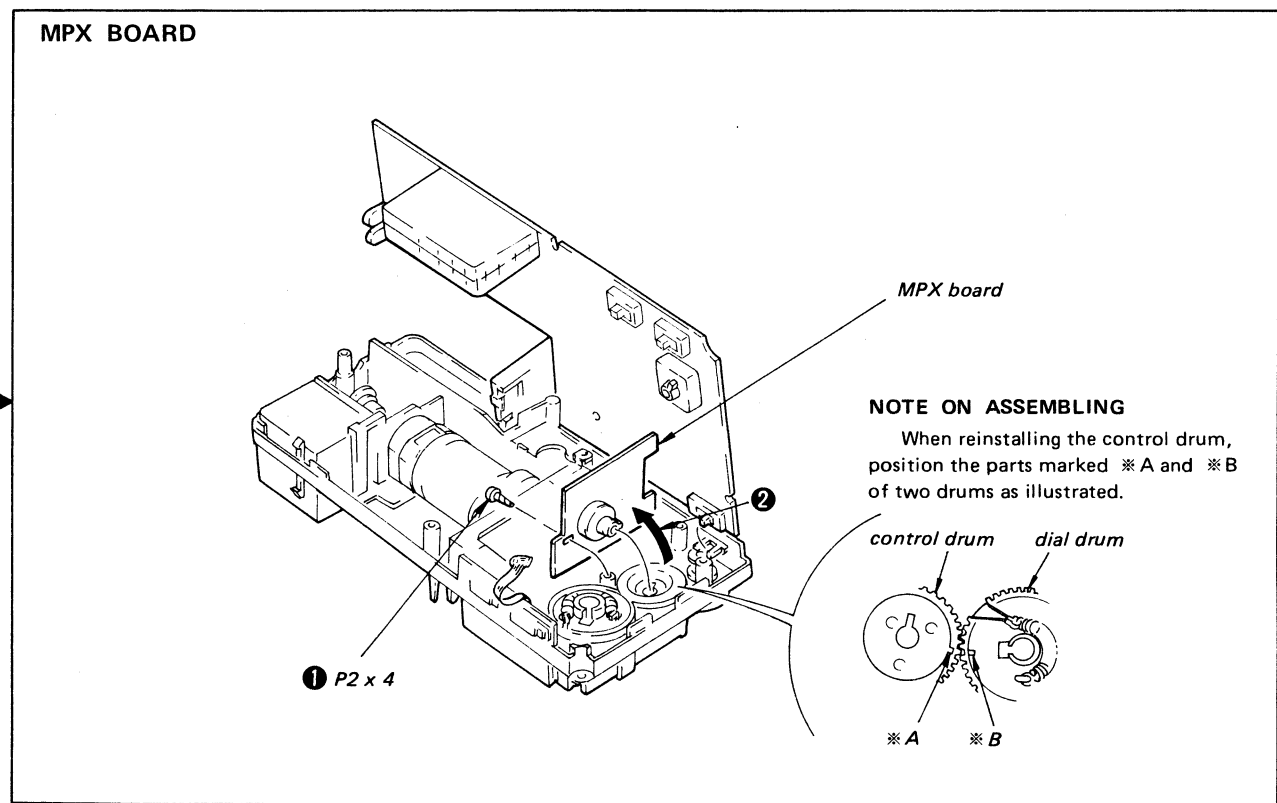
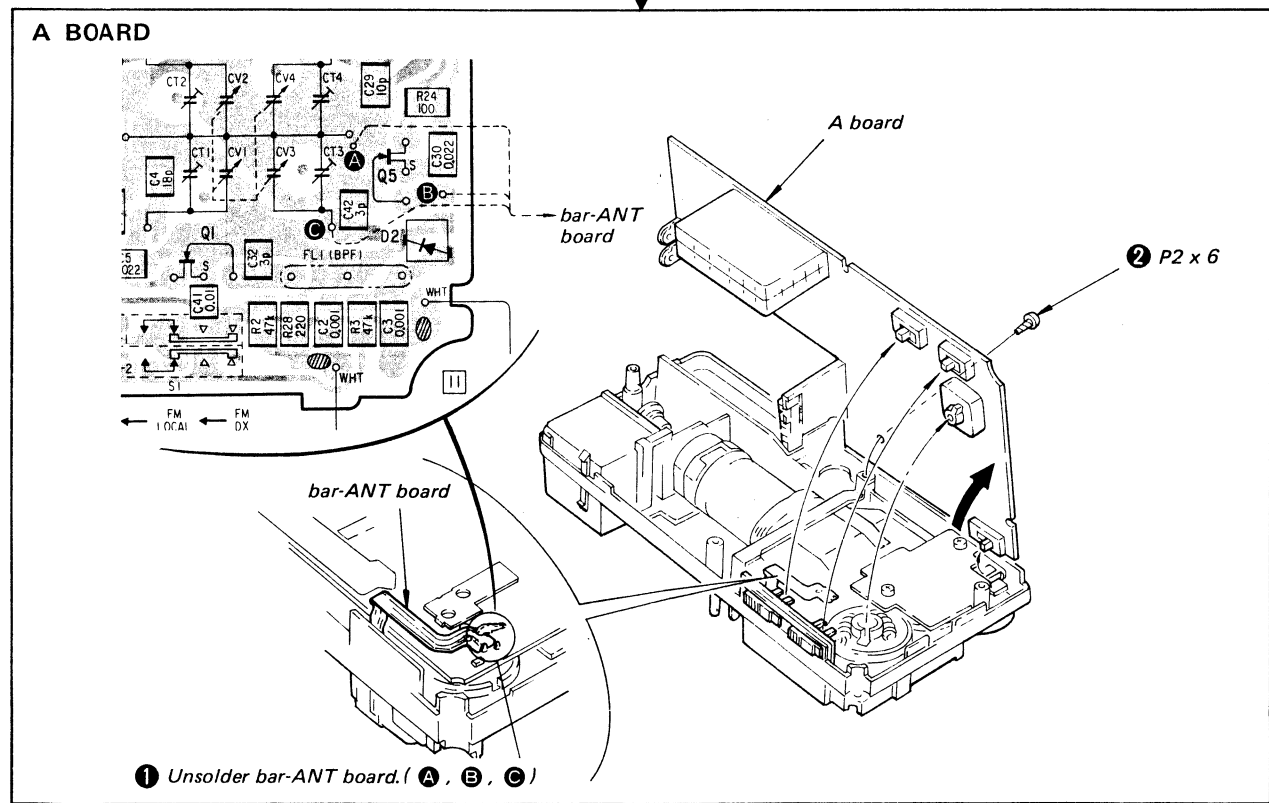
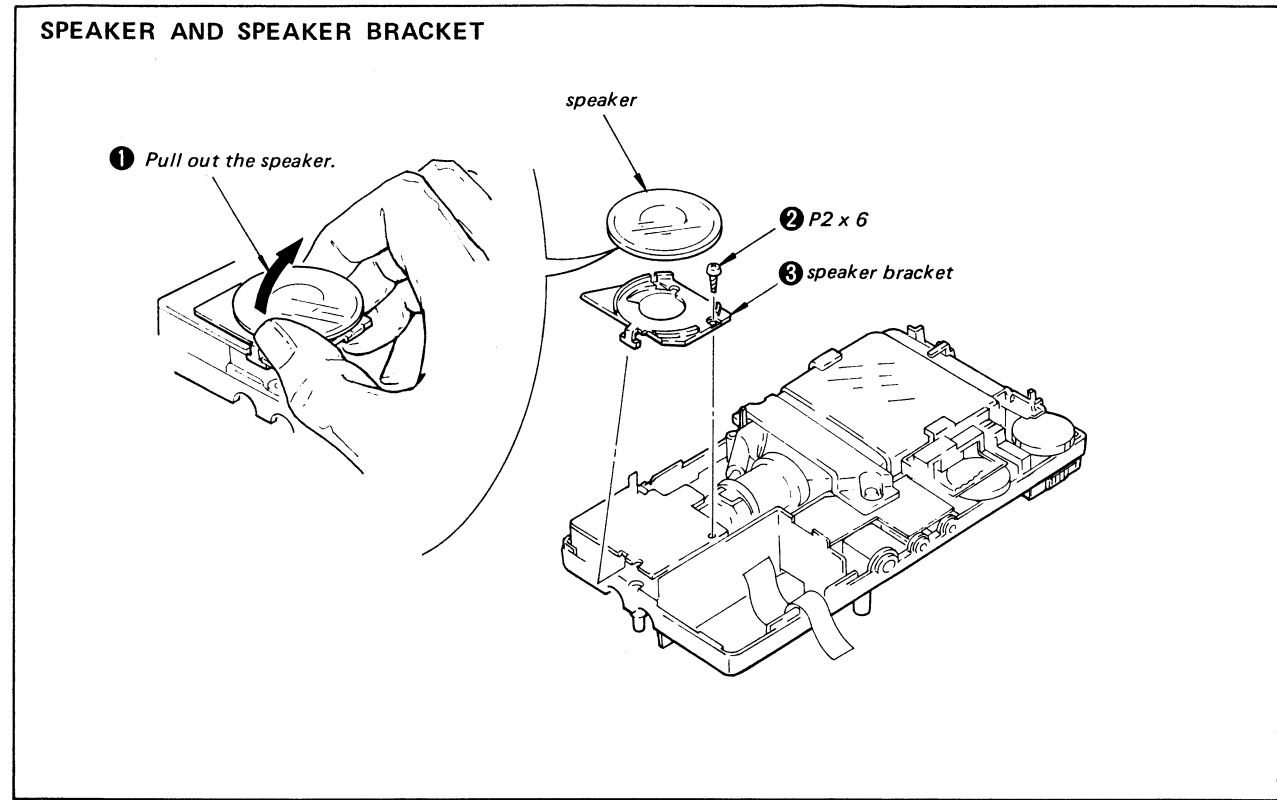
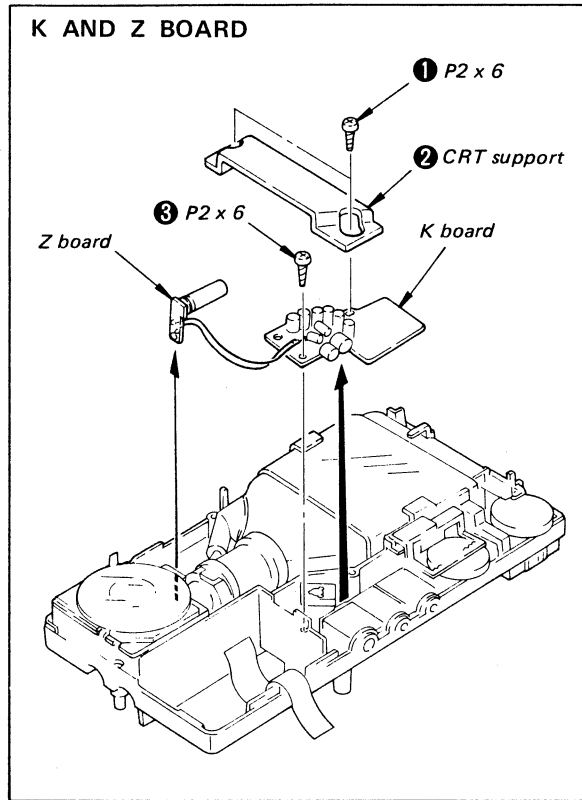
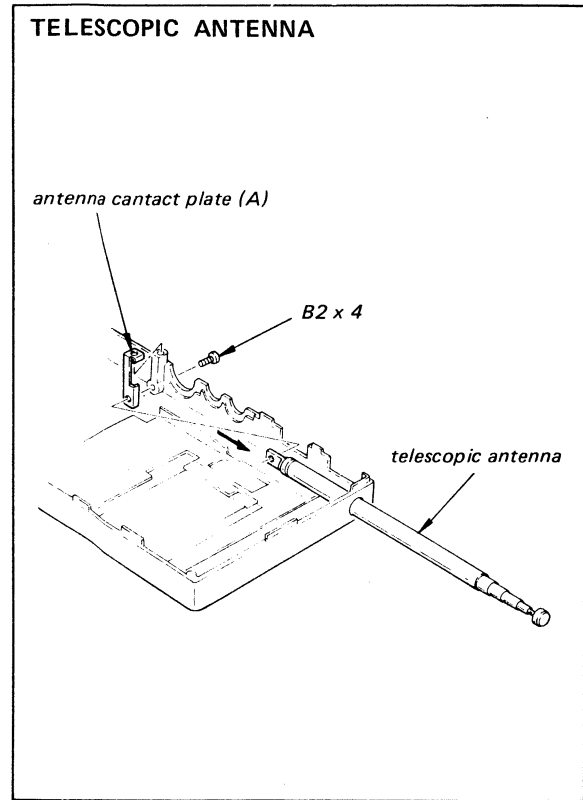
FEATURES

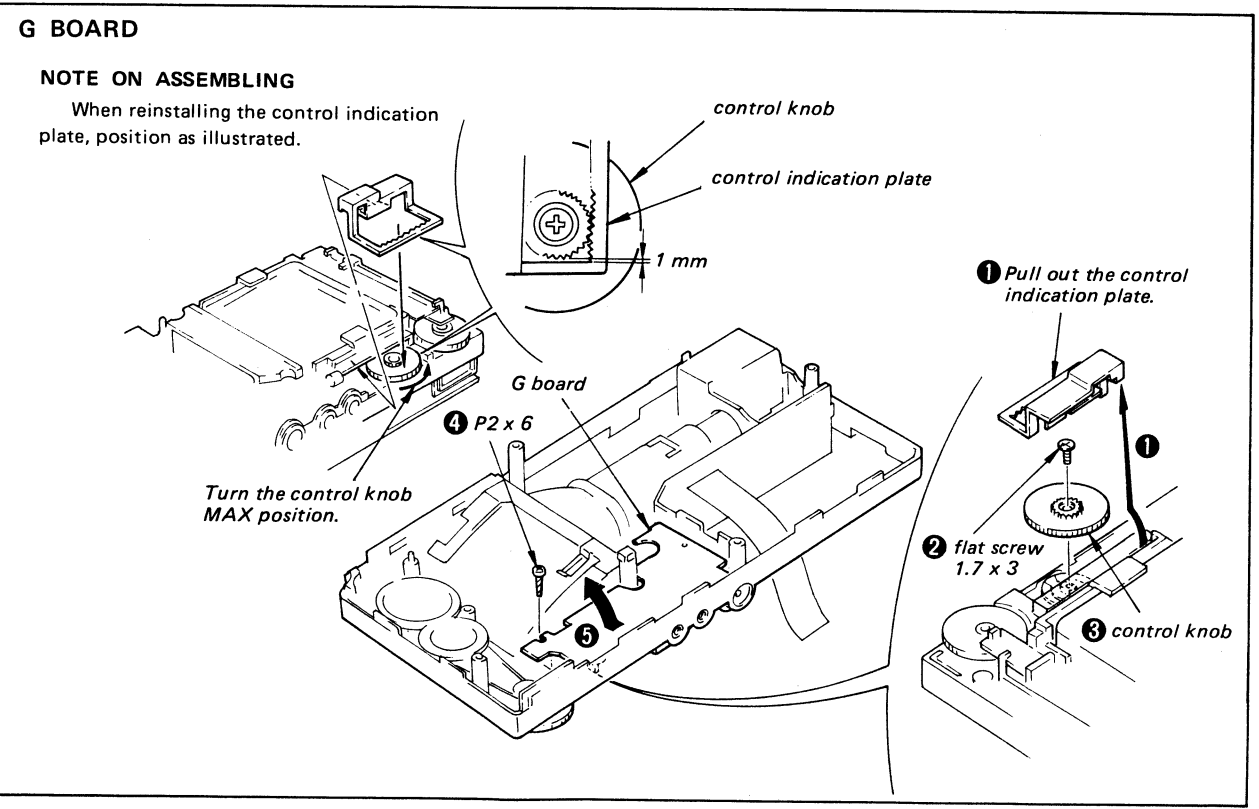
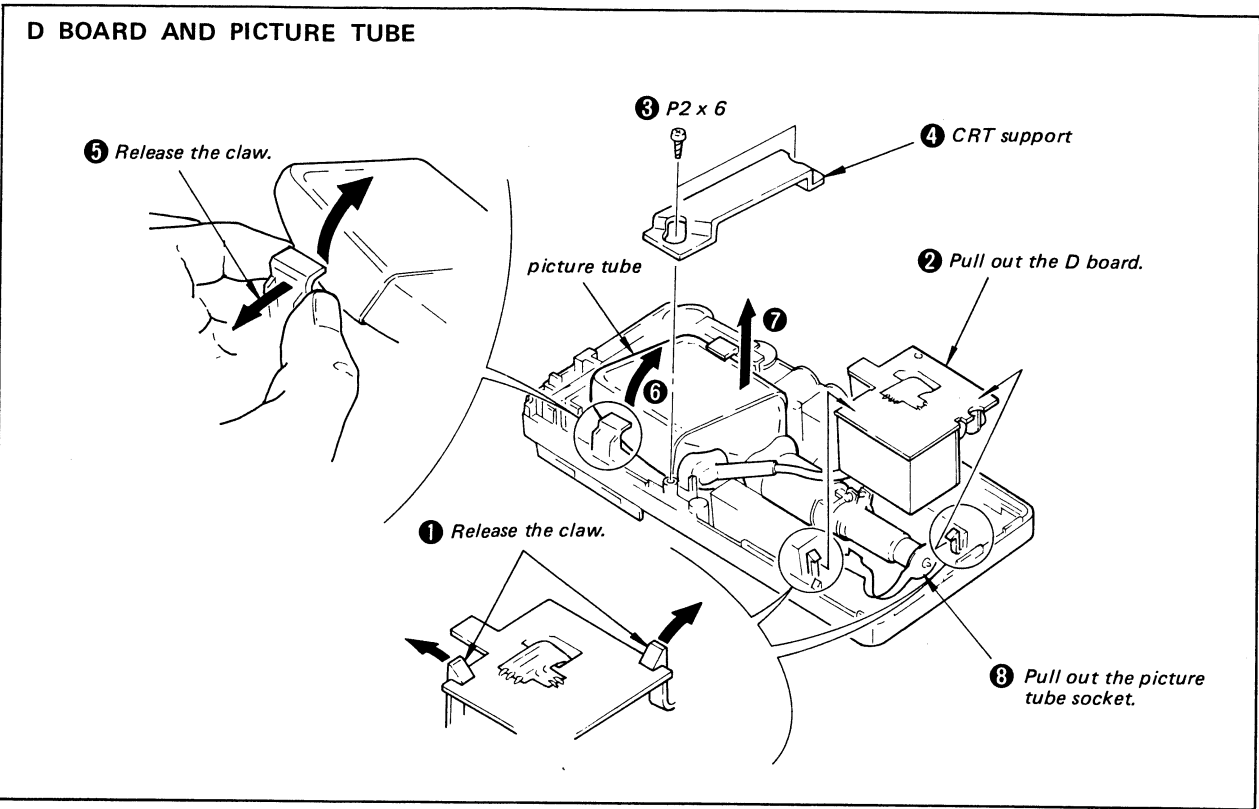
The FD-30A is a handy 2-inch flat TV which employs Sony's newly-developed monochrome FD (flat display) tube.

The recessed phosphor screen provides clear viewing even in a bright place.



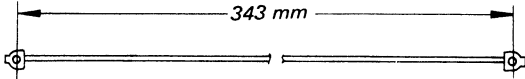
- Built-in FM stereo/AM radio.
- FM stereo listening through headphones.
- A VIDEO IN jack for monitoring the picture being recorded with a video camera.
- Built-in stand for tabletop viewing.
- Five different power sources: batteries, house current, rechargeable battery, battery case and 12 V car battery.



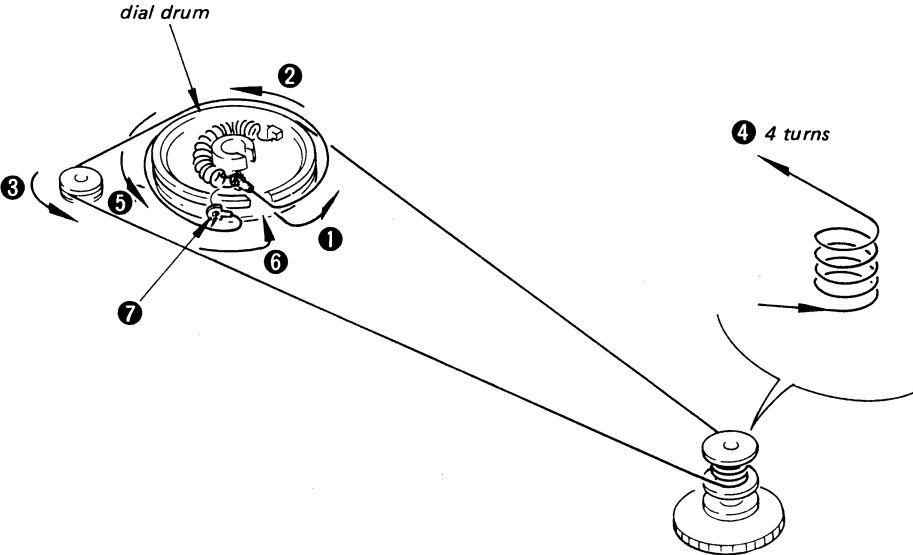


1-2. DIAL CORD STRINGING

1) Dial Cord Preparation

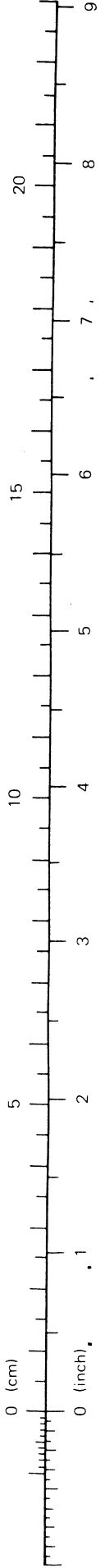
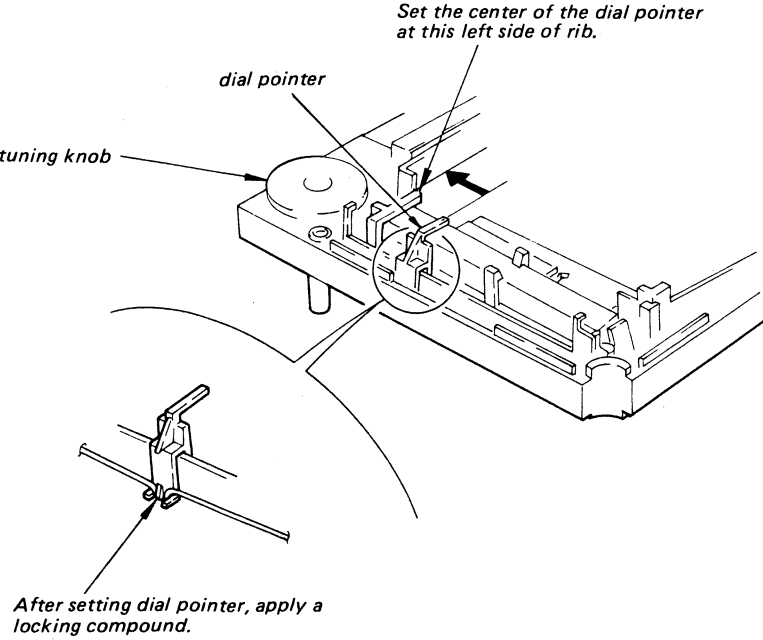


2) Dial Cord Stringing



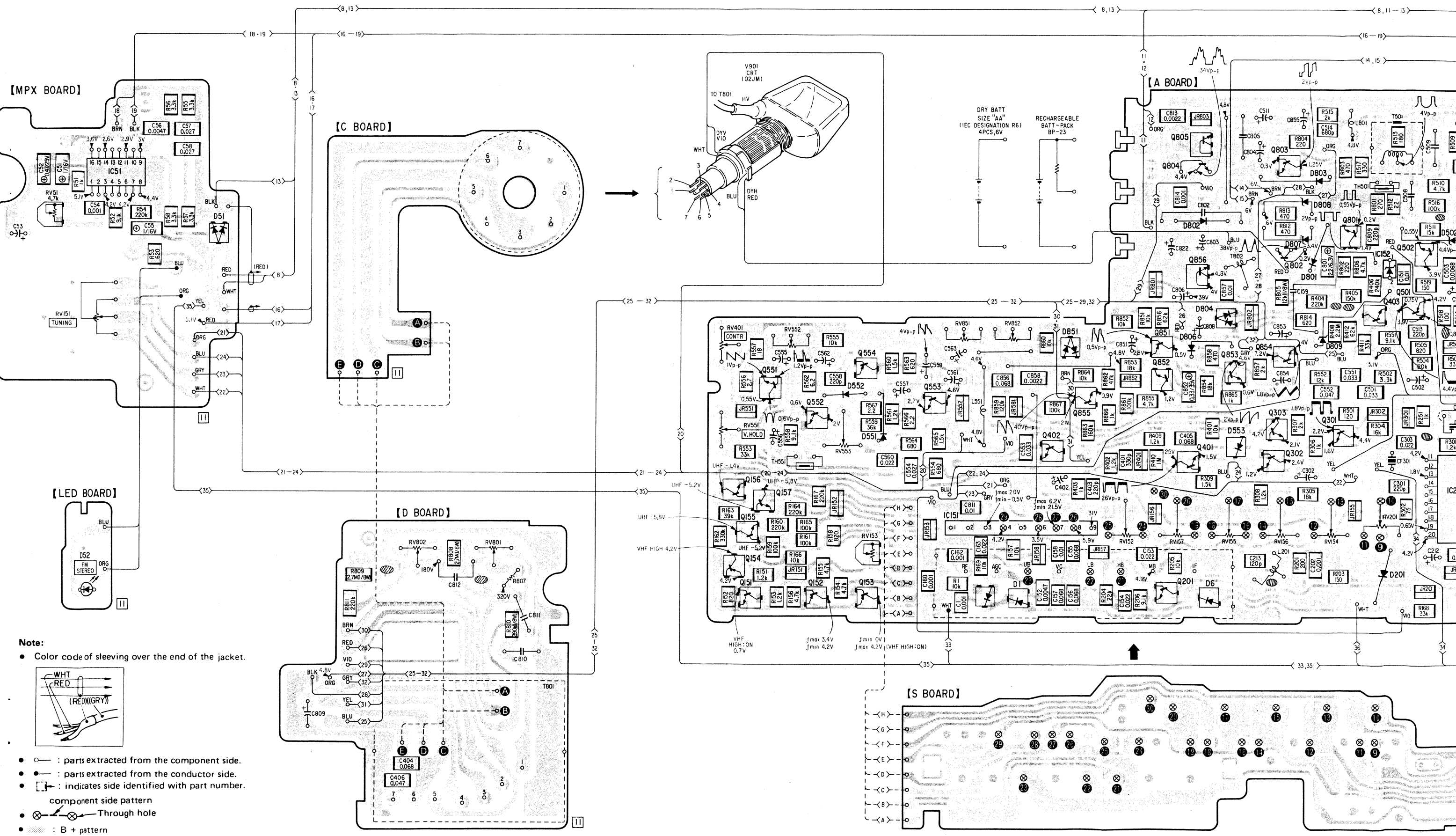
3) Pointer Setting

After the stringing; turn the tuning knob fully clockwise.

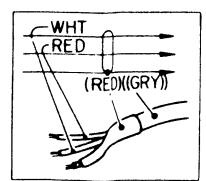


2. MOUNTING DIAGRAM — Conductor Side —

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----

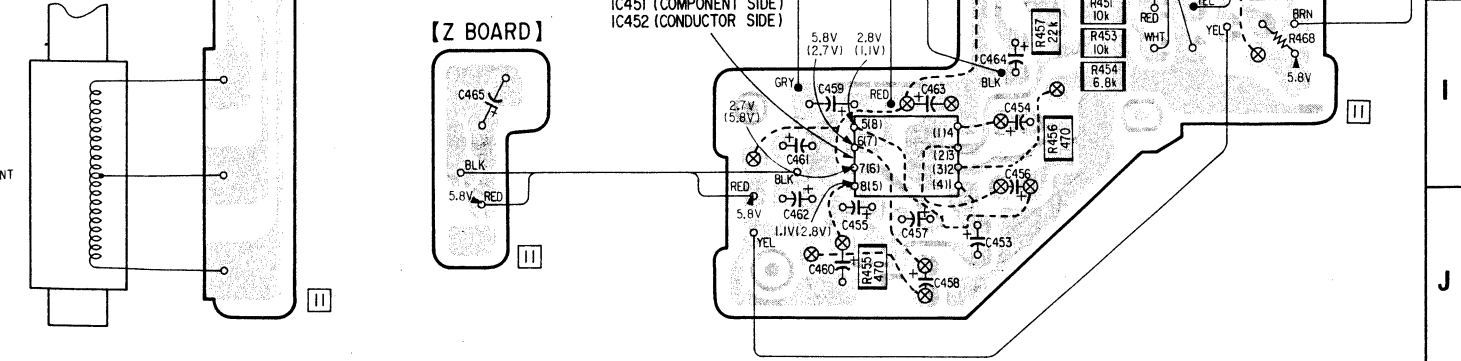
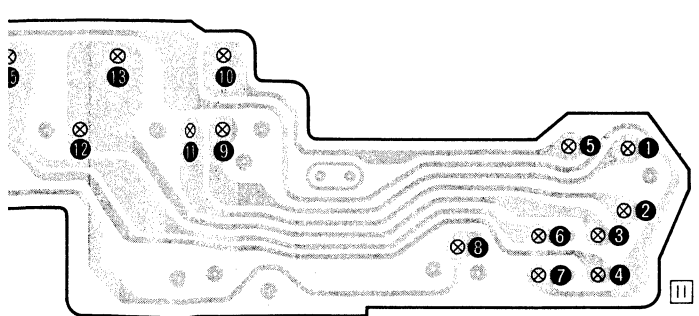
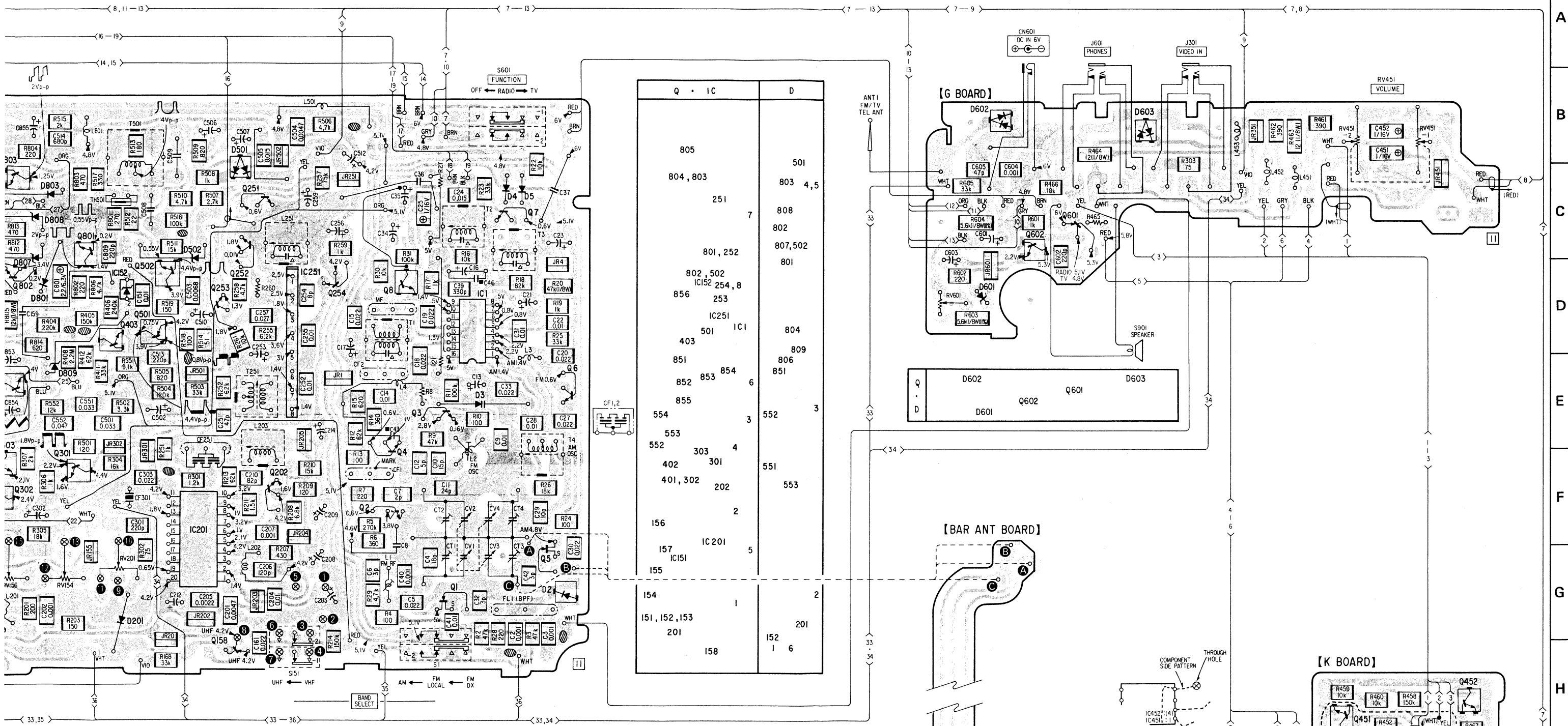


Note:
• Color code of sleeving over the end of the jacket.

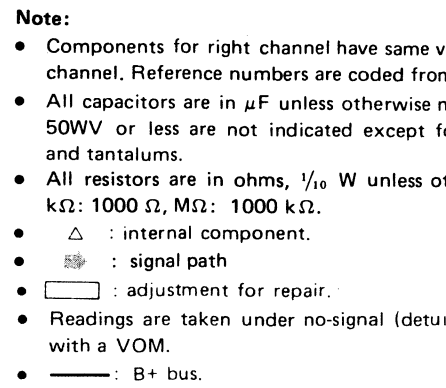


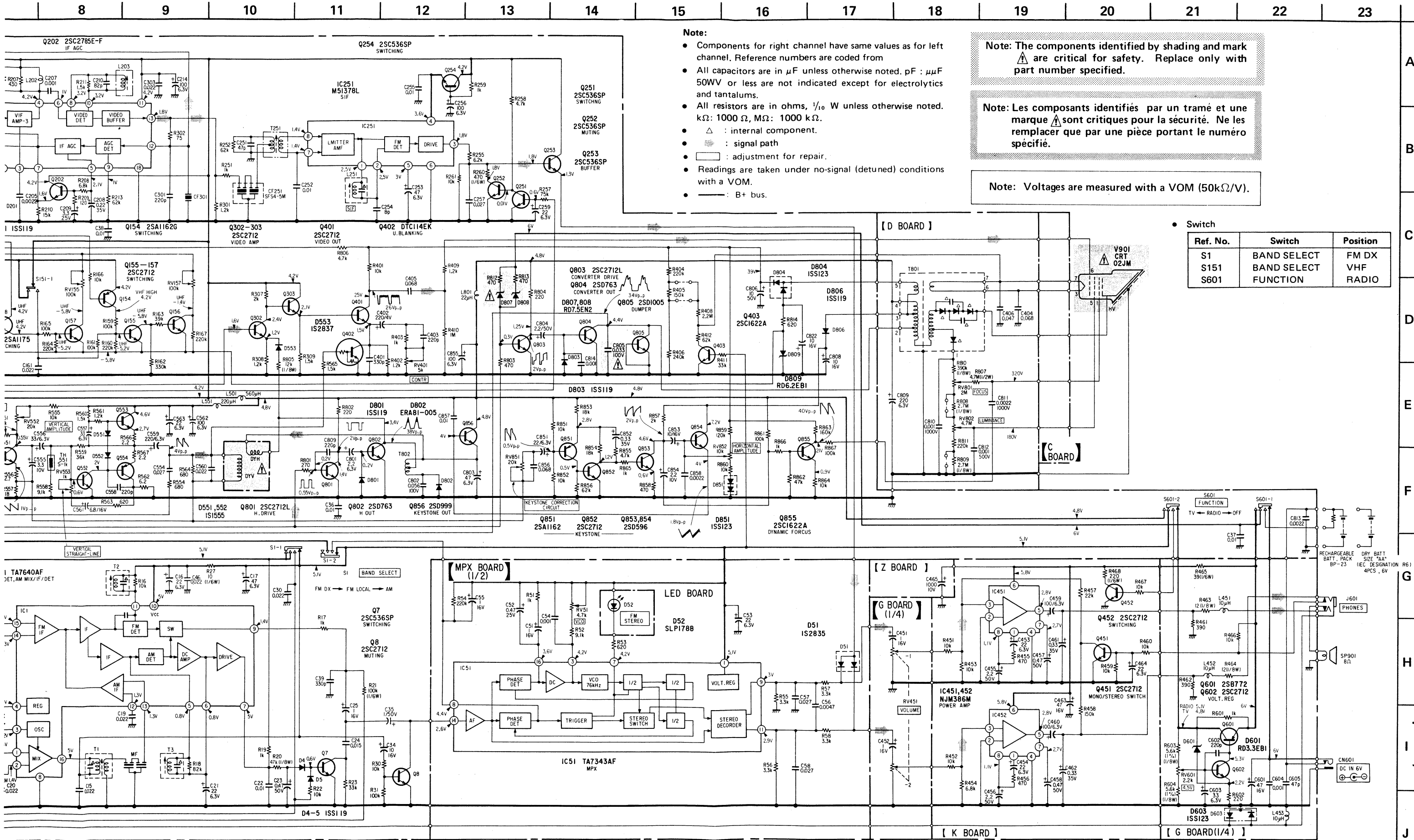
- — : parts extracted from the component side.
- — : parts extracted from the conductor side.
- [] : indicates side identified with part number.
- — : component side pattern
- ⊗ : Through hole
- — : B + pattern

5 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

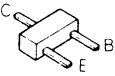
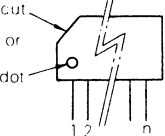
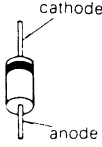
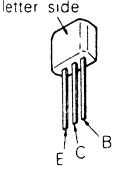
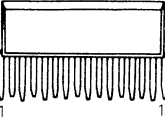
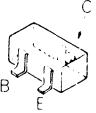
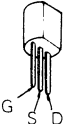
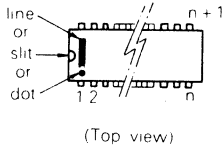
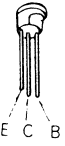
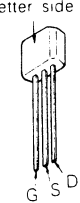
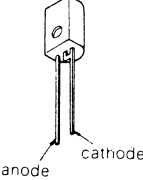
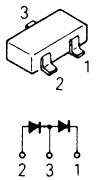
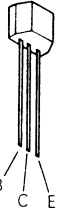
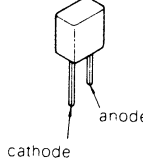


A
B
C
D
E
F
G
H
I
J
K





● Semiconductor Lead Layouts

2SA1162 DTC114EK 	2SD763 	AN5700 M51378L TA7343AF 	1S1555 1S2687S-1 1SS119 ERA81-005 RD3.3EB1 RD6.2EB1 RD7.5EN2 
2SA1175 2SC2785-E 	2SD999 2SD1005 	M51364P 	1S2835 
2SB624 2SC1622A 2SC1623 2SD596 	2SK54-B 	NJM386M TA7640AF 	1S2837 1SS153 
2SB772 	2SK193 	μPC574J-G 	1SS123 
2SC2458 2SC2839-E 		SLP178B 	

FD-30A

SERVICE MANUAL

US Model
Canadian Model

No. 2
January, 1984

SUPPLEMENT

File this supplement with the Service Manual.

A part of disassembly procedures has been added.
Adjustment designations have been specified in the schematic diagram.

FLAT B/W TV-FM STEREO/AM
RECEIVER

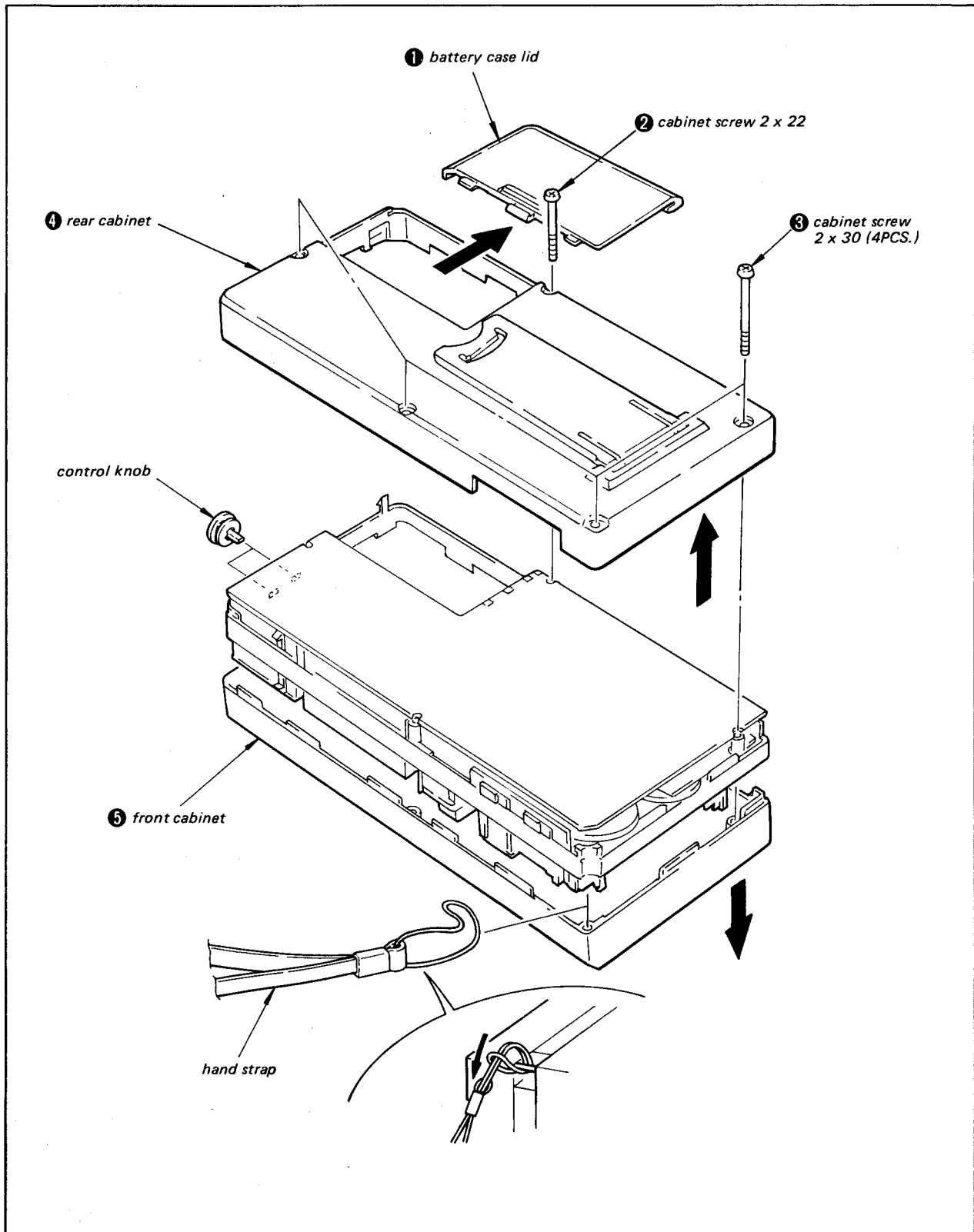
SONY®

B&W

1. DISASSEMBLY

1-1. REMOVAL

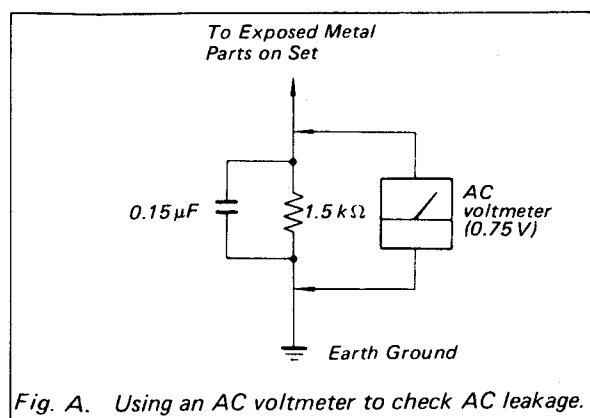
Note: Remove the parts in the numerical order.



SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any).
Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.



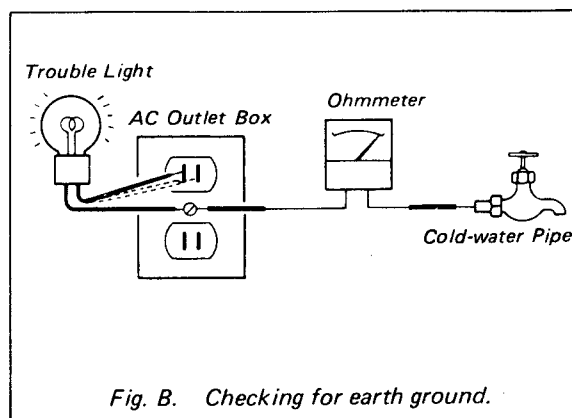
LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60–100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

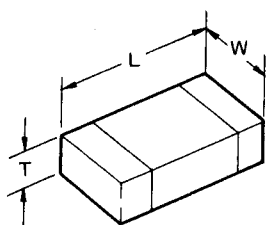


Chip components

Chip components include resistors, capacitors, transistors, diodes, coil and adjustable resistors.

In this section, the types of resistors, ceramic capacitors, transistors and diodes which are used most frequently will be described.

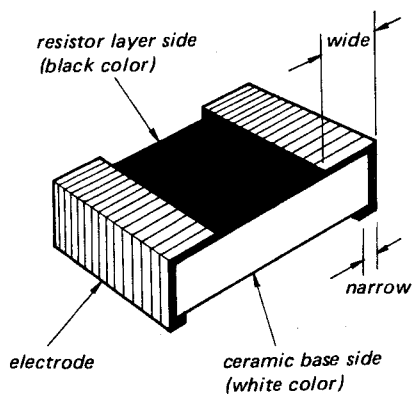
Dimension of transistors and capacitors



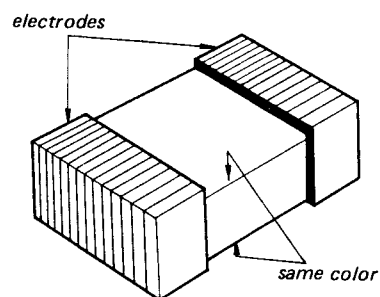
(Unit: mm)

Type	L	W	T
3216	3.2	1.6	0.45 ~ 0.6
2125	2.0	1.25	0.35 ~ 0.5

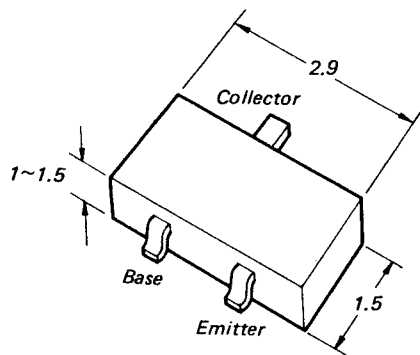
Identification



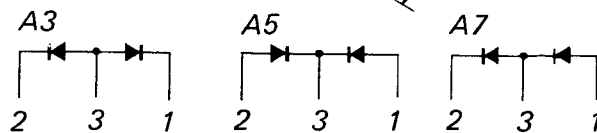
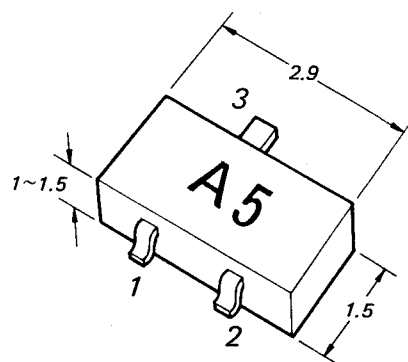
Resistor



Laminated Ceramic Capacitor



Transistor



Diode

SECTION 1 OUTLINE

Replacing chip components

All chip components should be connected and disconnected, using a tapered soldering iron [temperature of the iron tip: less than 280°C (536°F)], a pair of tweezers and braided wire.

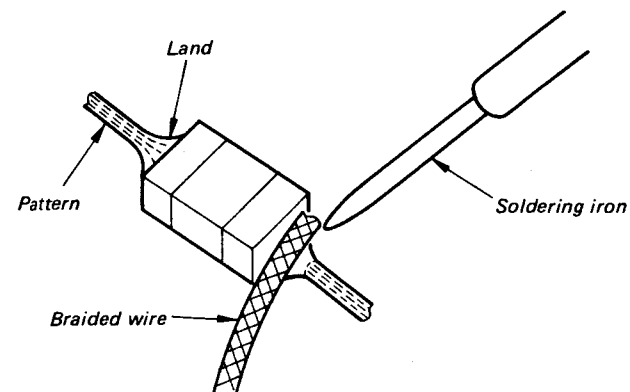
Precautions for replacement

1. Do not disconnect the chip component forcefully. Otherwise, the pattern may peel off.
2. Never re-use a disconnected chip component. Dispose of all old chip components.
3. To protect the chip component, heating time for attaching the component should be within 3 seconds.

○ Removing chip components

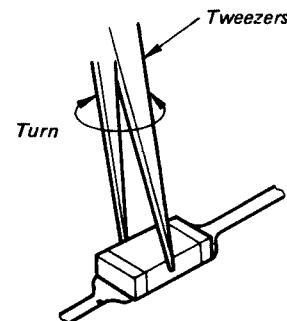
(1) Removing solder at electrode

Remove the solder at the electrode, using a thin braided wire. Do not remove the solder of the part (chip component) attached adjacent to the electrode.



(2) Disconnecting chip components

Turn the tweezers with the soldering iron alternately applied to both electrodes, and the chip component will be disconnected. Take careful precautions while disconnecting, because if the chip component is forcefully removed the land may peel off. Never re-use a disconnected chip component.



(3) Smoothing the soldered surface

After disconnecting the chip component, remove the solder by using a braided wire to smooth the land surface.

○ Connecting chip components

The value of chip components is not displayed on the main body. Take due precautions to avoid mixing new chip components with other ones.

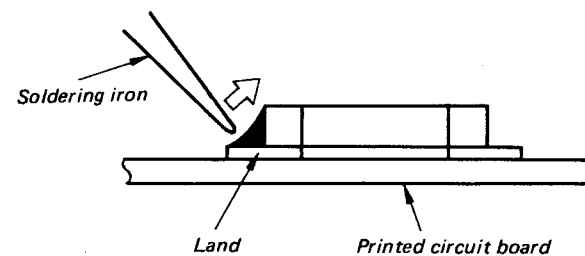
(1) Applying solder to land on one side

Apply a thin layer of solder to the land on one side where the chip component is to be connected. Too much solder may cause bridging.



(2) Speedy soldering

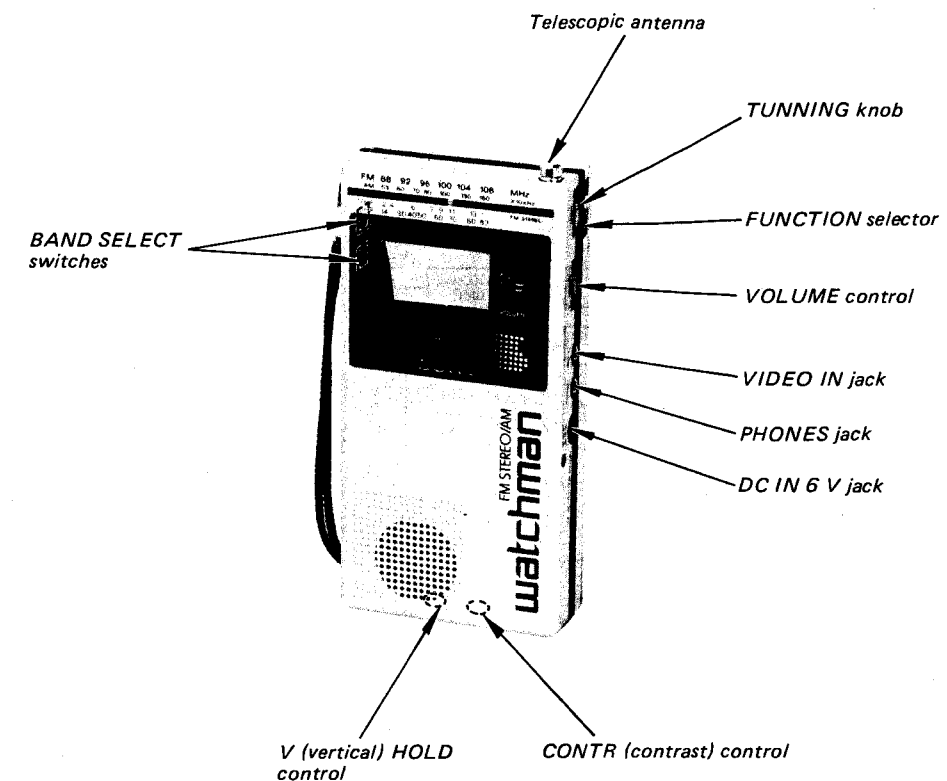
Hold the chip component at the desired position, using tweezers, and apply the soldering iron in the arrow-marked direction. To protect the chip component, heating time should be within 3 seconds.



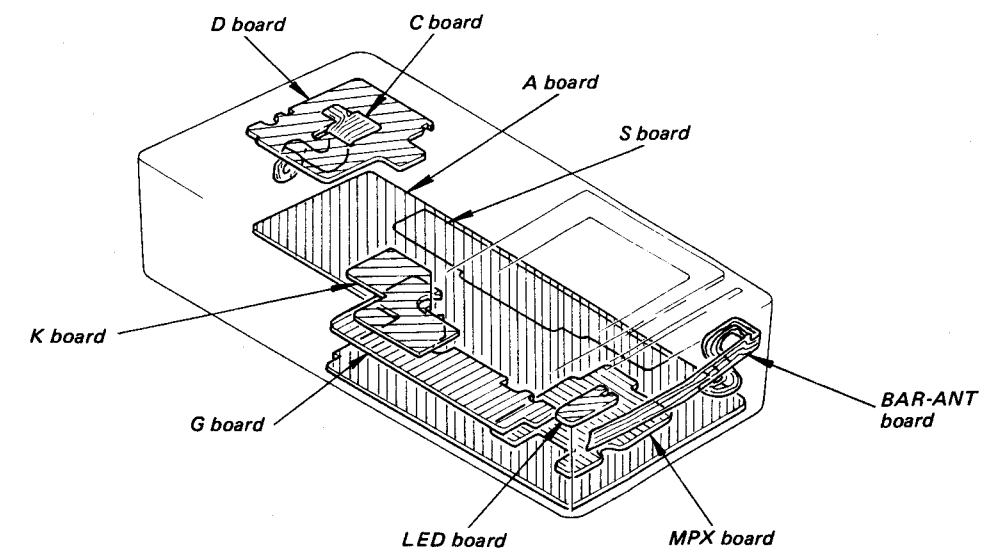
(3) Speedy soldering of electrode on the other side

Solder the electrode on the other side in the same way as in (2) above.

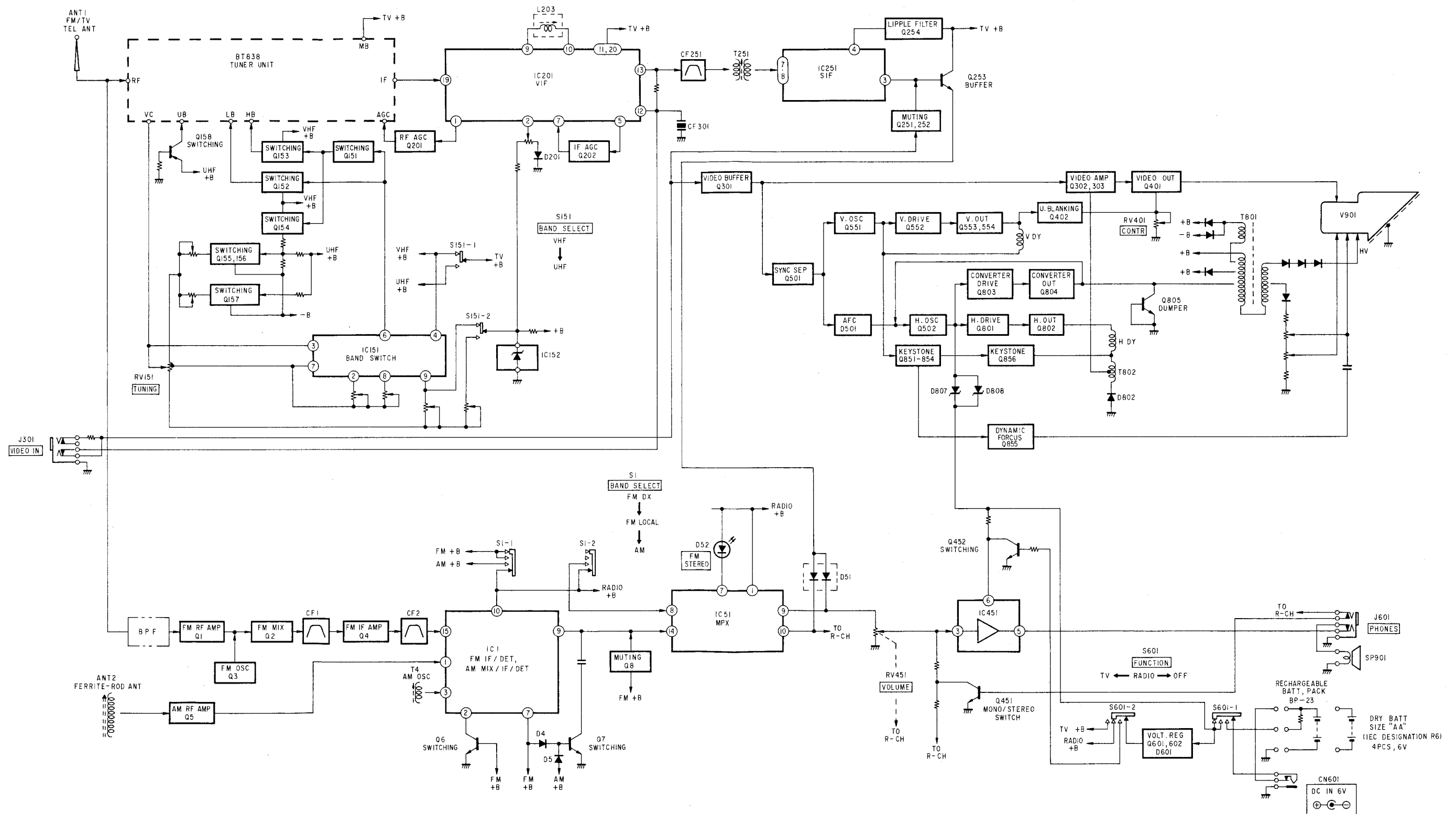
1-1. PARTS IDENTIFICATION



1-2. CIRCUIT BOARD LOCATION



1-3. BLOCK DIAGRAM

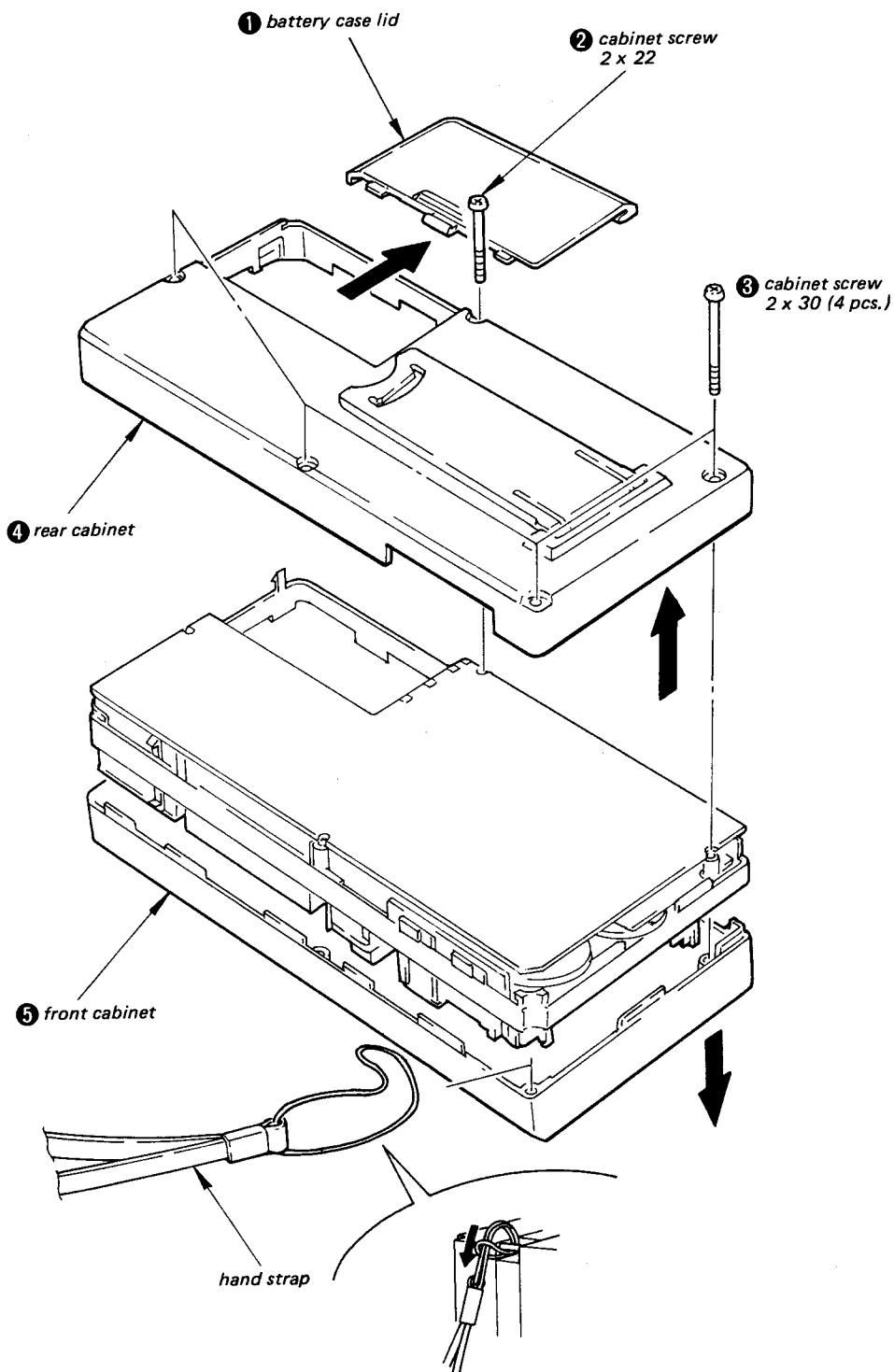


SECTION 2 DISASSEMBLY

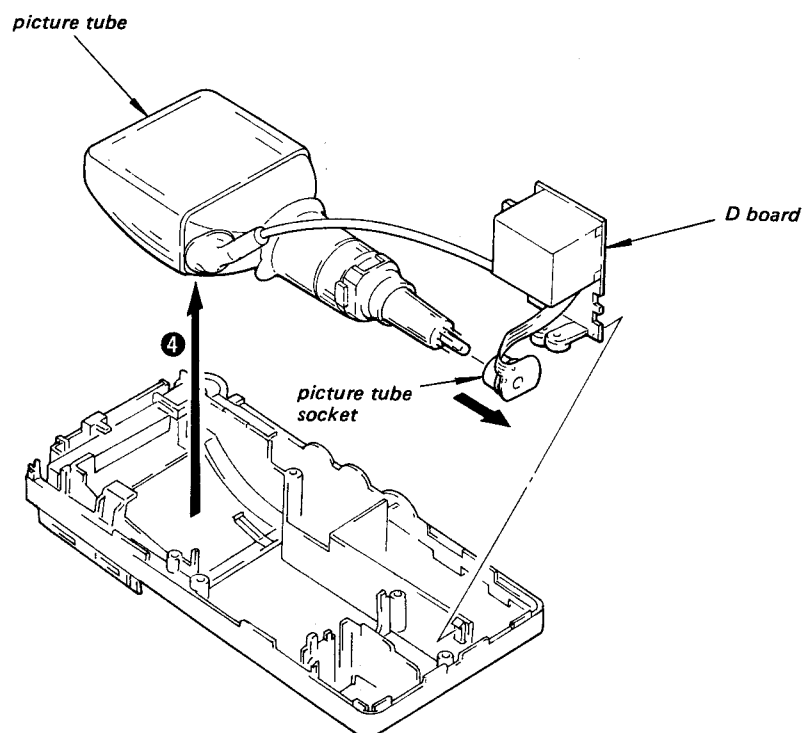
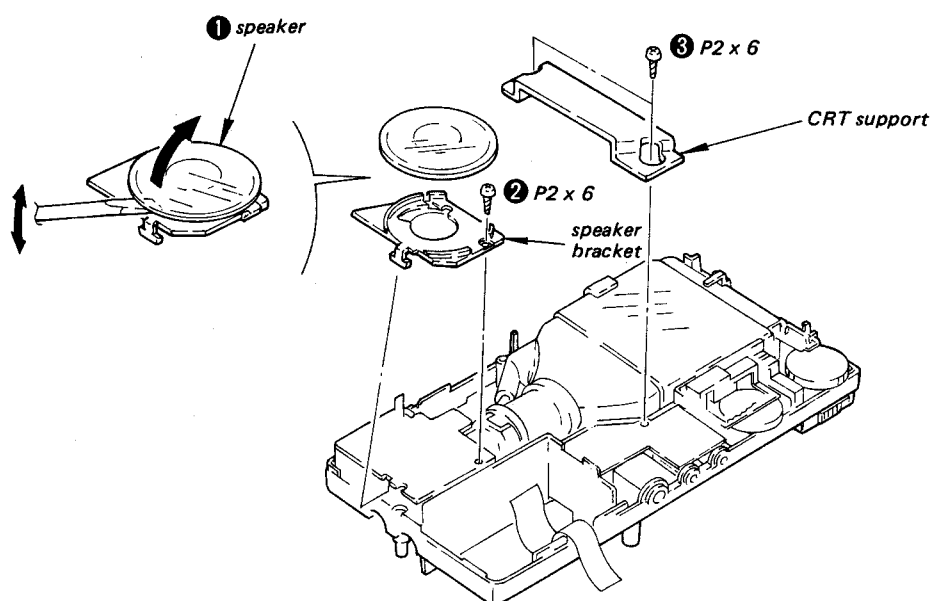
2-1. REMOVAL

Note: Remove the parts in the numerical order.

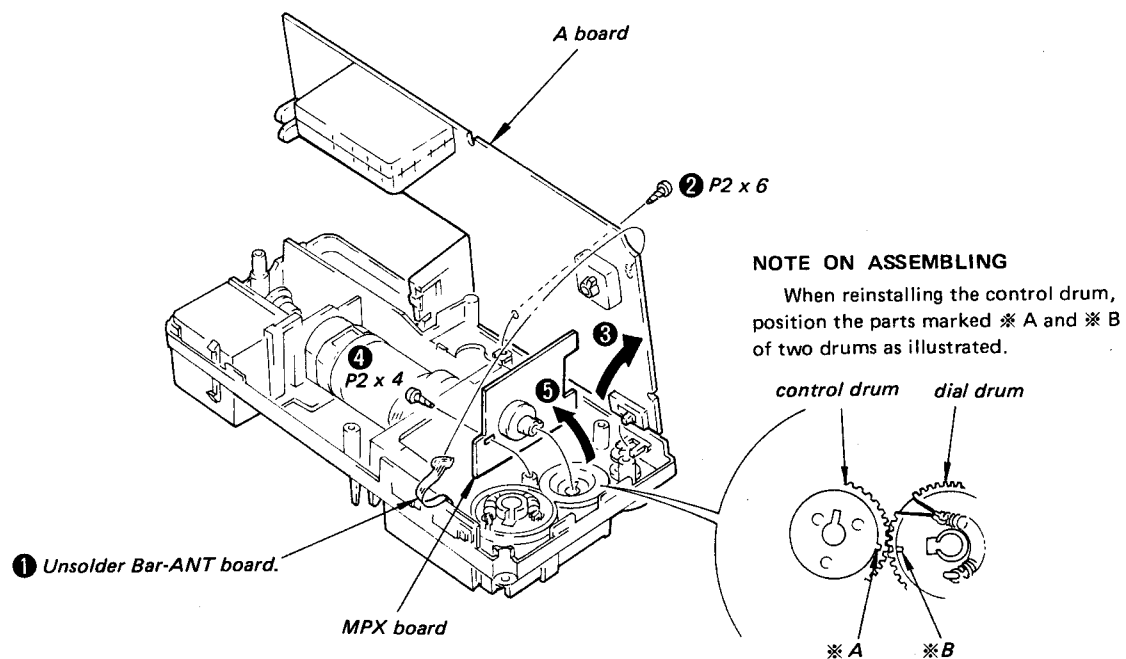
CABINET



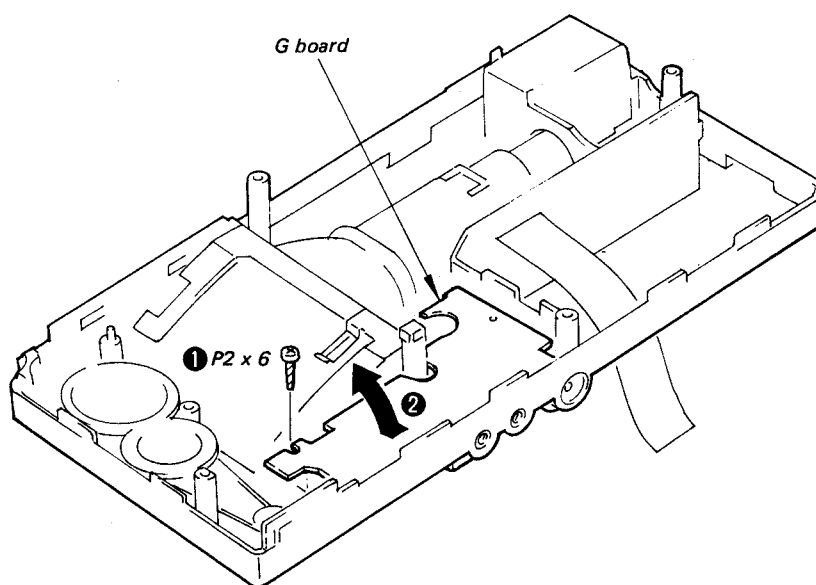
PICTURE TUBE AND D BOARD



A BOARD AND MPX BOARD

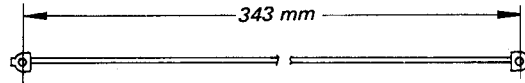


G BOARD

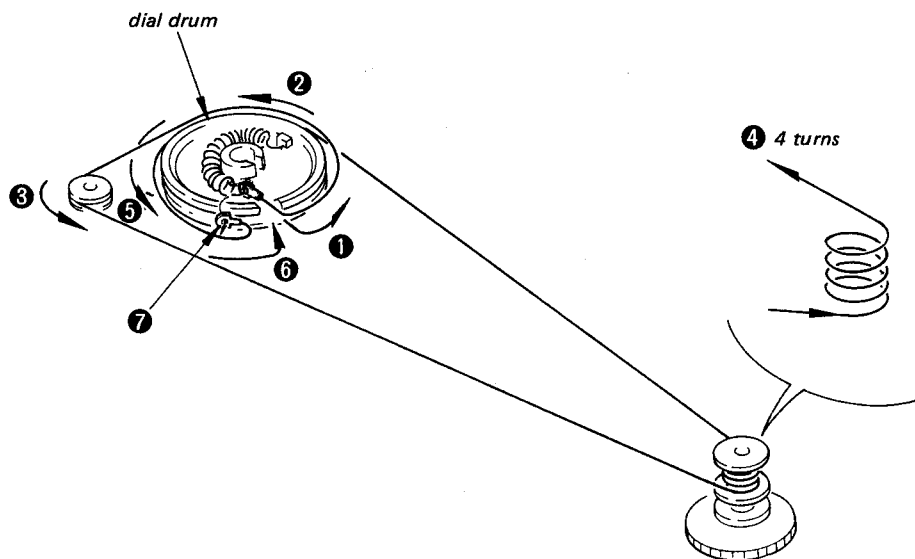


2-2. DIAL CORD STRINGING

1) Dial Cord Preparation

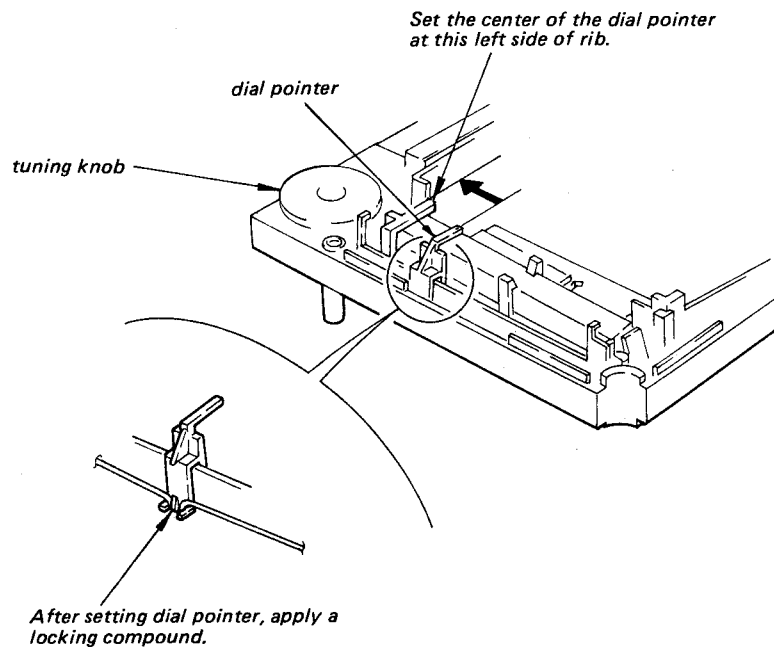


2) Dial Cord Stringing



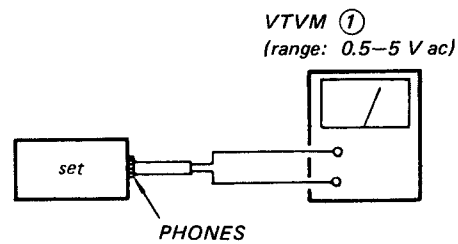
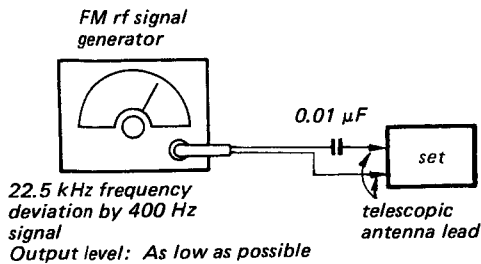
3) Pointer Setting

After the stringing; turn the tuning knob fully clockwise.



SECTION 3 ADJUSTMENTS

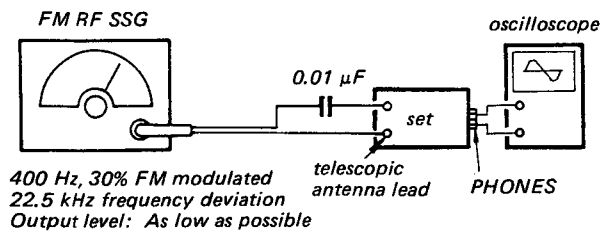
FM SECTION



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

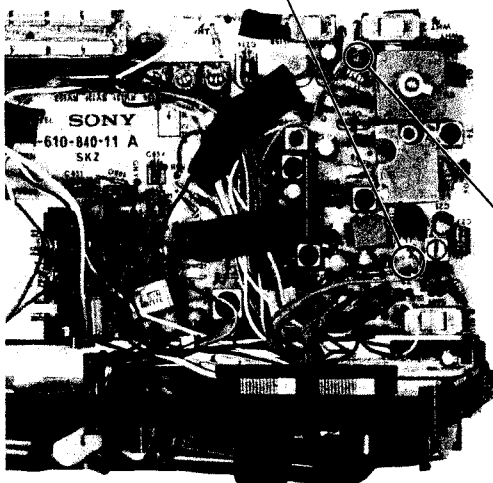
FM IF Adjustment

Procedure:



- Confirm that there are three points at which a sine waveform appears when changing the frequency of SSG gradually.
- Observe the center of these three points. Adjust SSG for maximum waveform.
- Adjust T2 for minimum noise on the waveform and maximum level.

T2

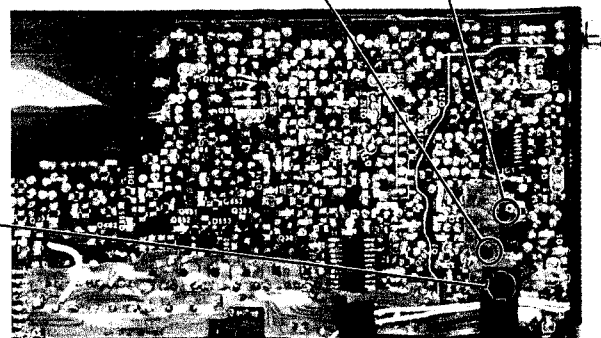


FM FREQUENCY COVERAGE

Adjust for maximum reading on VTVM.

108.5 MHz	87.1 MHz
CT2	L2

87.1 MHz	L1
108.5 MHz	CT1
Adjust for maximum reading on VTVM.	
FM TRACKING ADJUSTMENT	



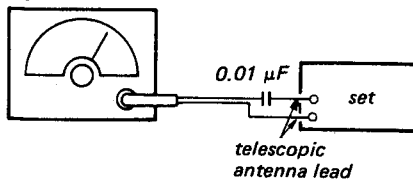
VCO Adjustment

Setting: BAND: FM STEREO

A) Regular Method

Procedure:

FM rf signal generator



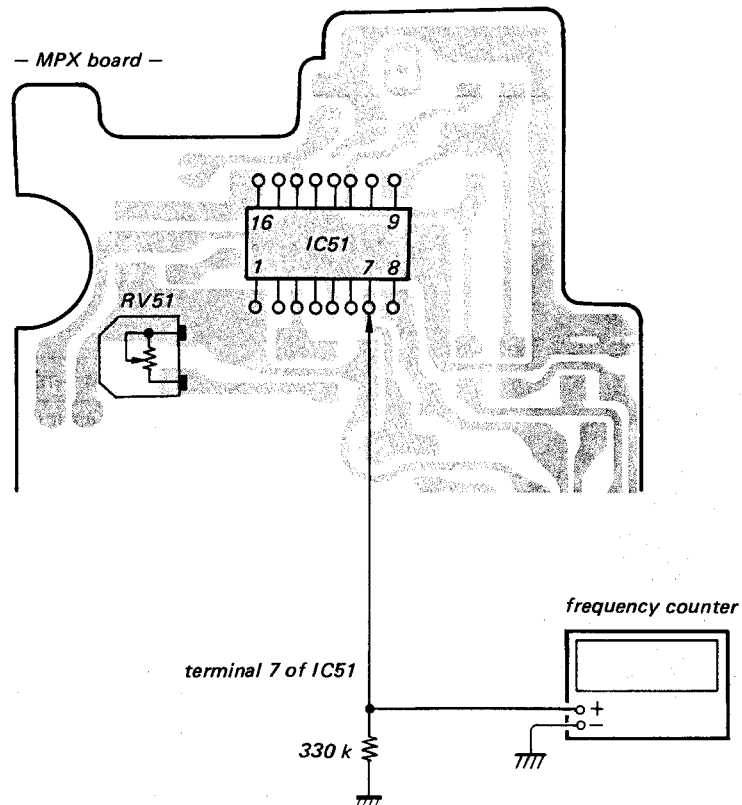
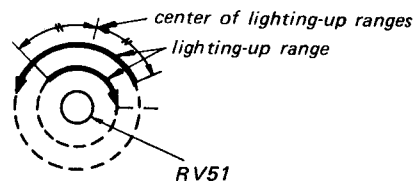
Carrier frequency: 98 MHz
Modulation: 1 kHz, 22.5 kHz deviation (30%)
Output level: 55 dB (560 μV)

1. Unsolder FM STEREO LED lead wire.
2. Tune the set to 98 MHz.
3. Adjust RV51 for 38 kHz $\pm$ 100 Hz on the frequency counter.

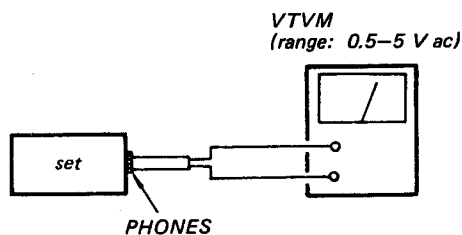
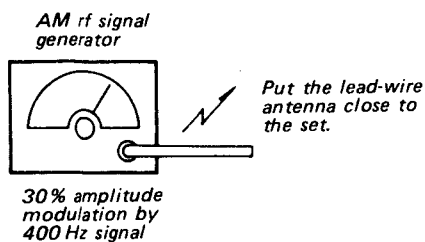
B) Simple Method

Procedure:

1. Tune the set to the FM stereo broadcasting signal.
2. Turn RV51 clockwise or counterclockwise and memorize the lighting-up range of the FM STEREO lamp.
3. Secure RV51 at the center of the lighting-up range of both turns as shown below.



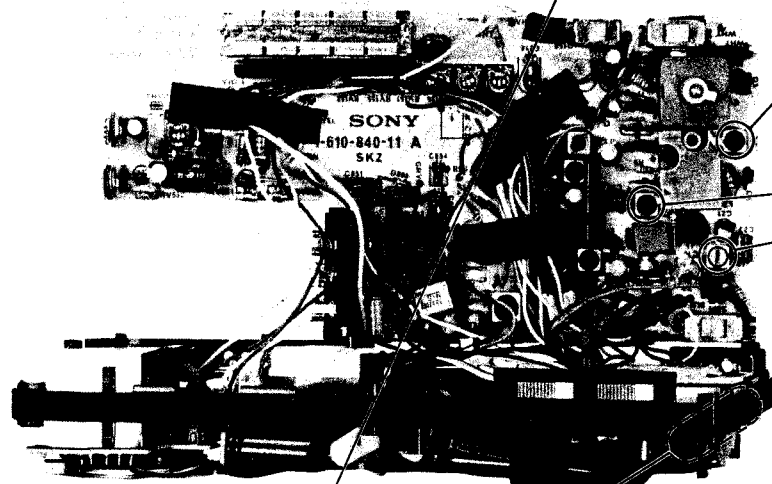
AM SECTION



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.



AM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for maximum reading on VTVM.	
1,680 kHz	520 kHz
CT4	T4



AM IF ADJUSTMENT	
Adjust for maximum reading on VTVM.	
T1	455 kHz
T3	

CT3	ANT2
1,400 kHz	620 kHz
Adjust for maximum reading on VTVM.	
AM TRACKING ADJUSTMENT	

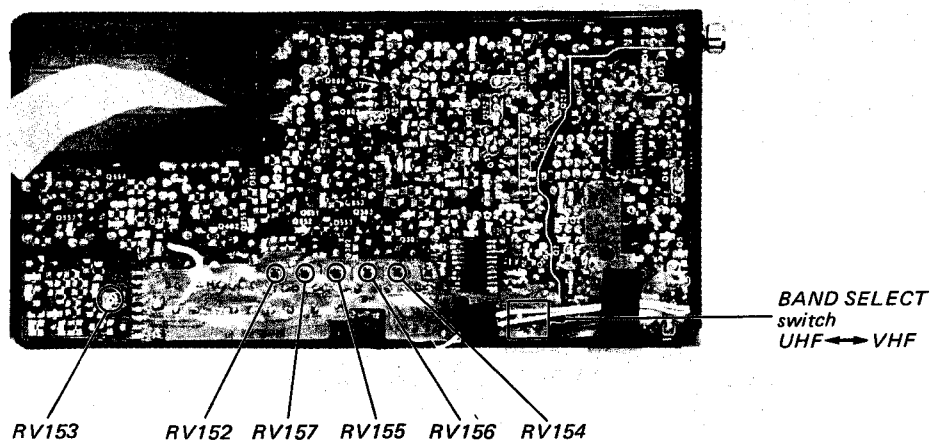
TV SECTION

Channel Display Adjustment

BAND SELECT switch	Channel (which tunes in the off-the-air signal.)	Adjust RVs for optimum picture
VHF	6-CH	RV157
	to 2-CH	RV152
UHF	70 – 83-CH	RV154
	to 14 – 30-CH	RV155
VHF	7-CH	RV153
	to 13-CH	RV156

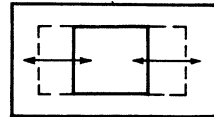
Adjustment Location:

— A board —



Horizontal Amplitude Adjustment

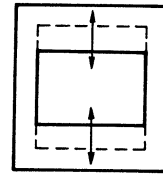
1. Tune in an off-the-air signal.
2. Adjust RV852 for the best horizontal amplitude.



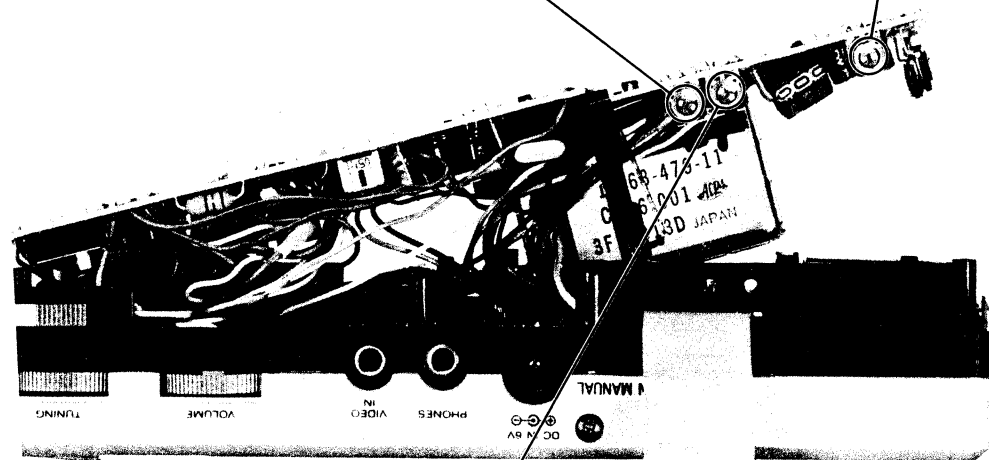
RV852

Vertical Amplitude Adjustment

1. Tune in an off-the-air signal.
2. Adjust RV552 for the best vertical amplitude.

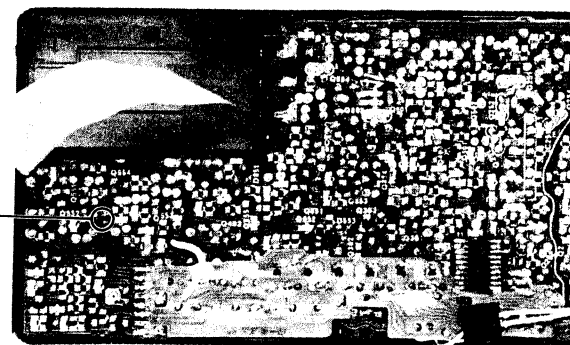


RV552



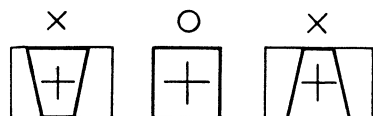
RV851

RV553



Keystone Correction Circuit Adjustment

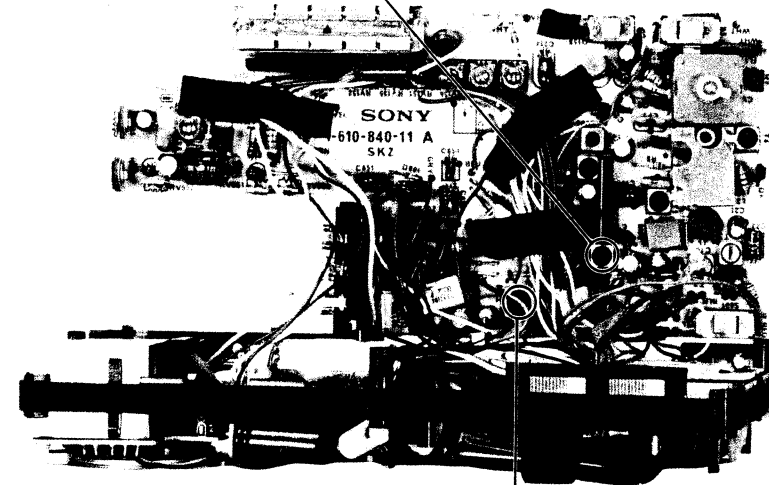
1. Tune in an off-the-air signal.
2. Adjust RV553 (vertical straight-line) and RV851 (keystone correct) for optimum picture.



SIF Adjustment

1. Tune in an off-the-air signal.
2. Adjust L251 for maximum and clearest sound.

L251



T501

Horizontal Frequency Adjustment

When using frequency counter:

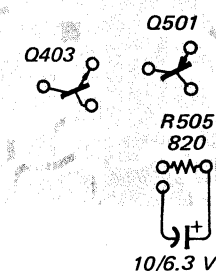
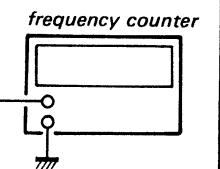
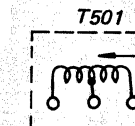
1. Connect a 10 μ F/6.3 V tantalum capacitor in parallel with R505.
2. If necessary, adjust T501.

Specifications: 15.734 – 15.854 KHz

When using an off-the-air signal:

1. Tune in an off-the-air signal.
2. Turn and adjust the core of T501 for optimum picture.

— A board —

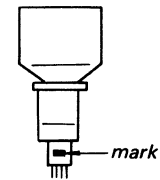


Luminance

1. Bridge neck of
2. Connect for 10 -

Luminance Adjustment

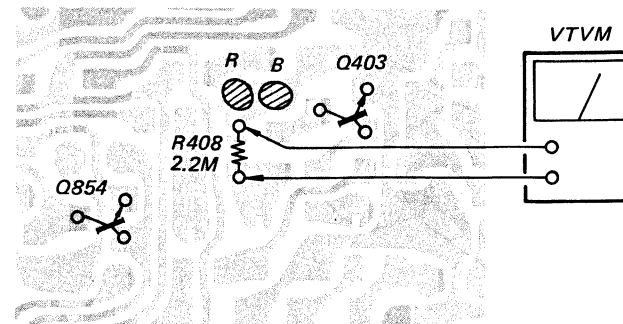
1. Bridge the pattern according to the mark on the neck of the CRT.



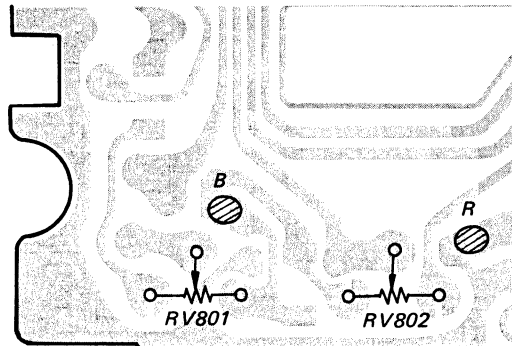
CRT	A board	D board
red	R	R
green or no mark	R	B
blue	B	B

2. Connect VTVM across R408 and adjust RV802 for 10 – 11 V reading on VTVM.

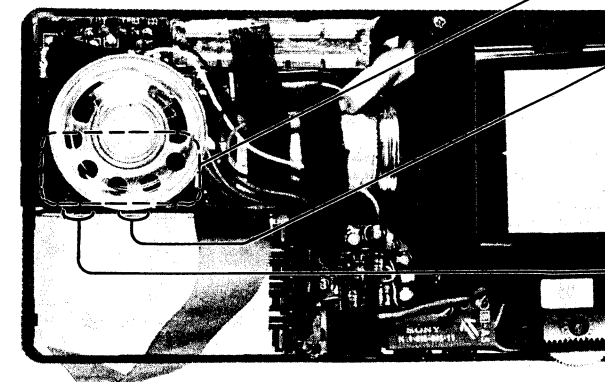
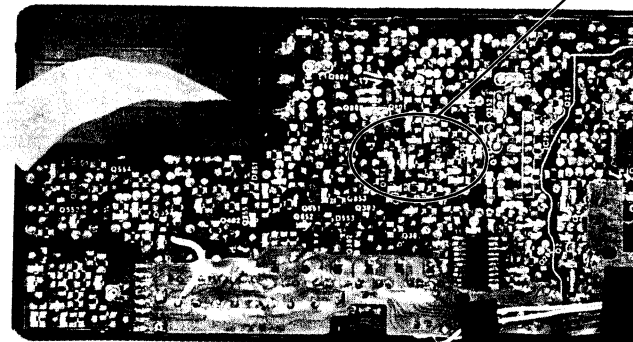
— A board —



— MPX board —



RV802



RV801

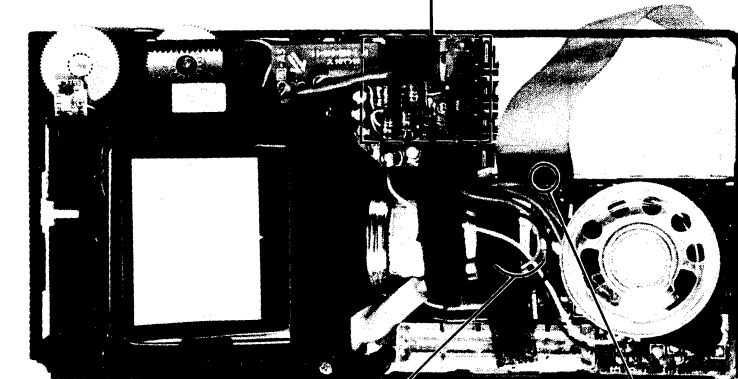
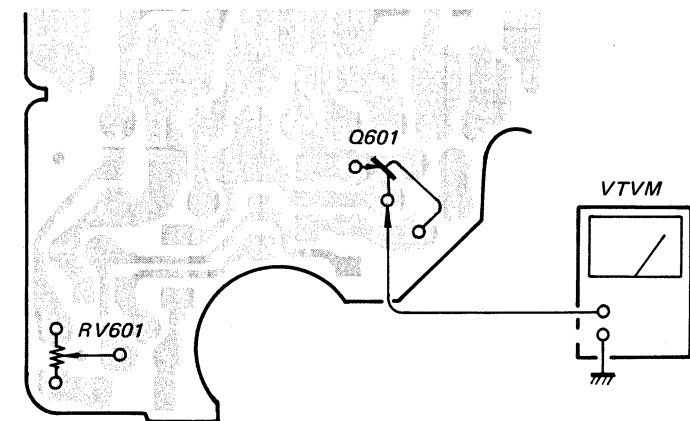
Focus Adjustment

1. Set the power voltage 4.5 V.
2. Tune in an off-the-air signal.
3. Adjust RV801 for the best focus at the center of the picture.

4.8 V Adjustment

Adjust RV601 so that the collector voltage of Q601 is 4.8 V.

— G board —



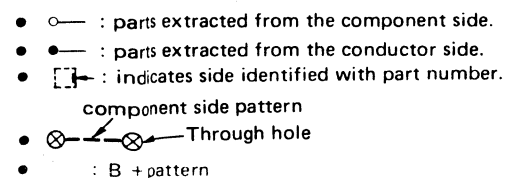
Centering Adjustment

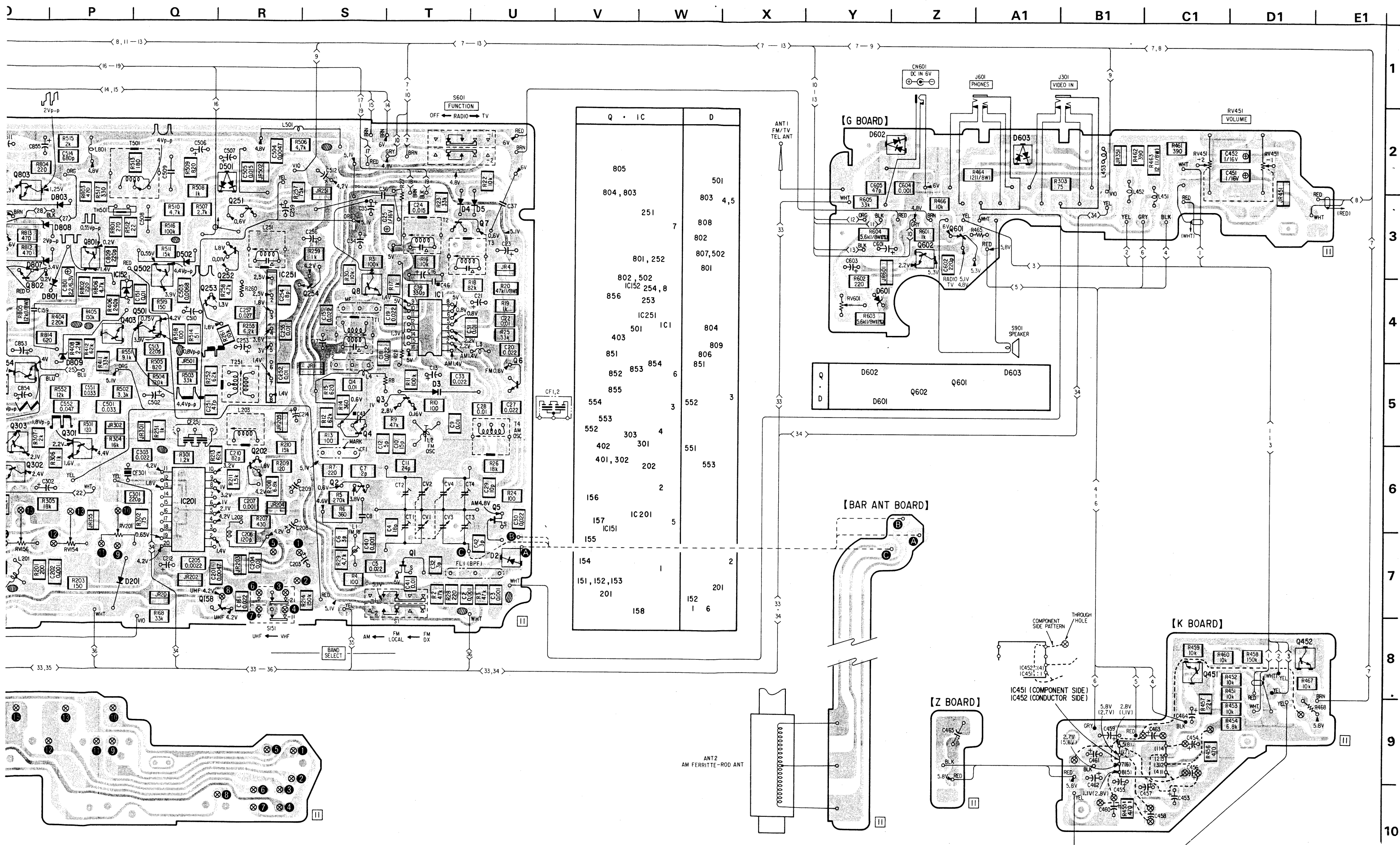
1. Turn the socket of CRT toward the north.
2. Tune in an off-the-air signal.
3. Adjust the centering magnet so that the picture is in the center.

Horizontal Alignment Adjustment

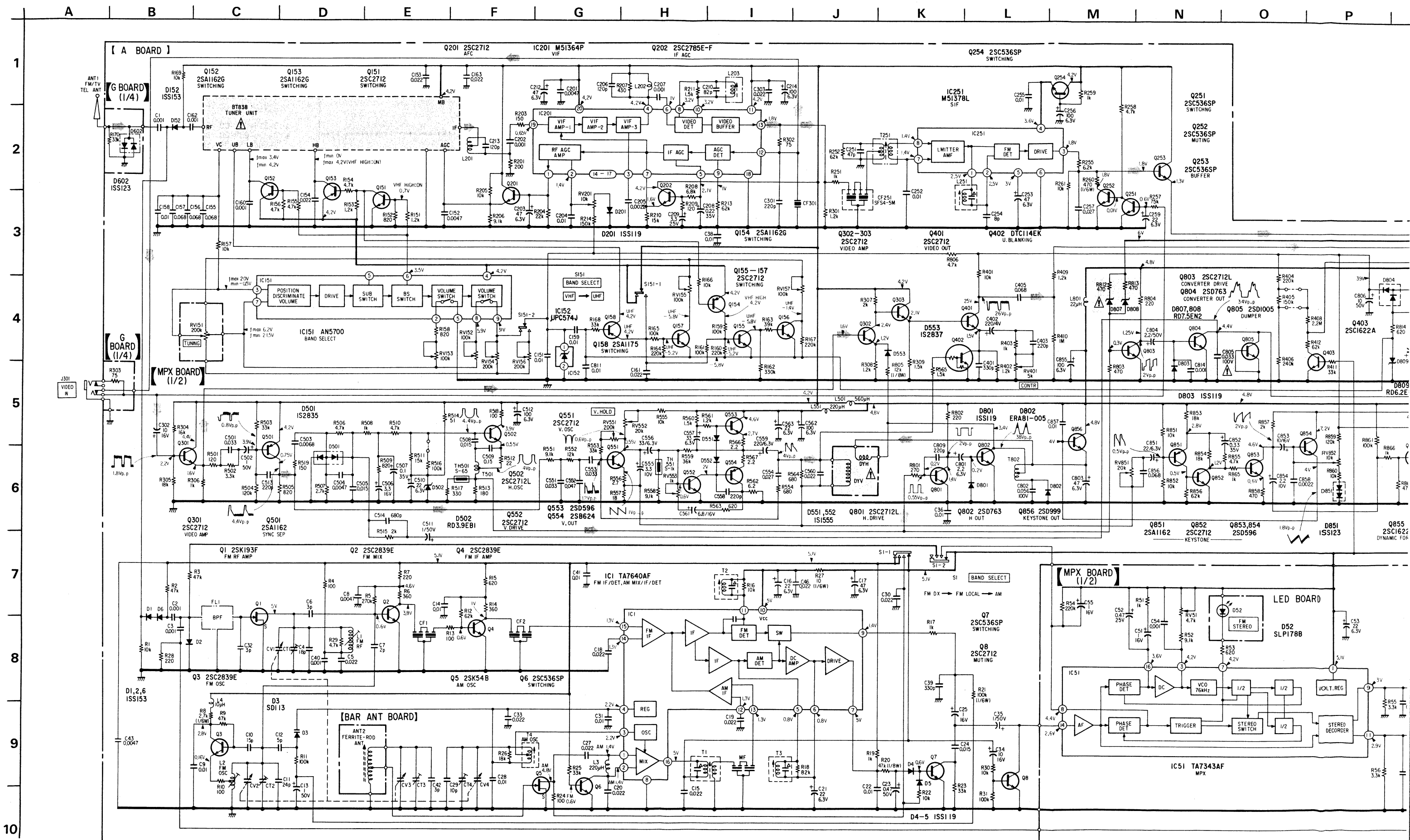
1. Loosen the adjustment screw.
2. Tune in an off-the-air signal adjust deflection yoke for optimum picture.
3. Tighten the screw after the adjustment.

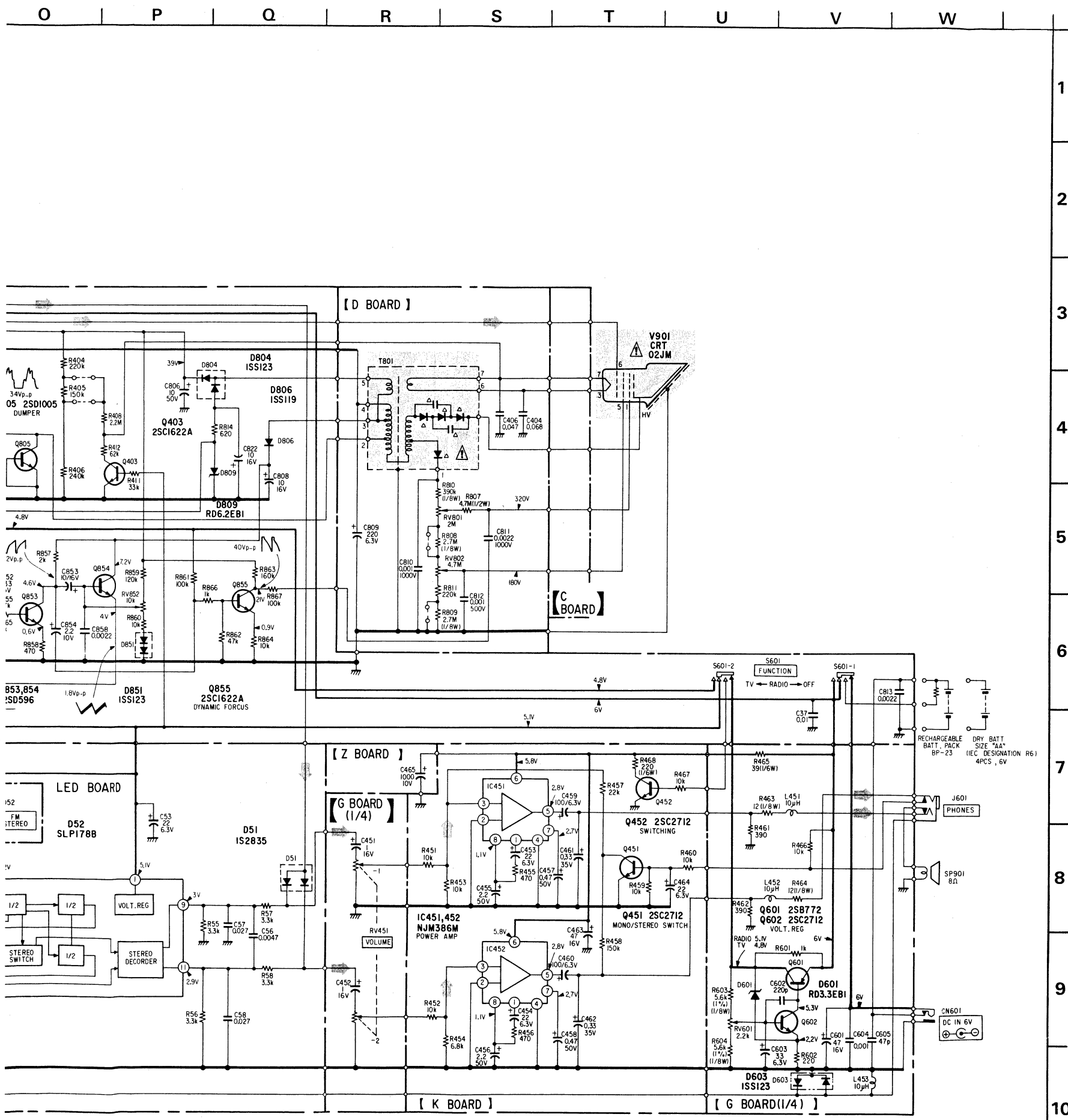
See page 29 for Semiconductor Lead Layouts.





4.2. SCHEMATIC DIAGRAM





- Note:**
- Components for right channel have same values as for left channel. Reference numbers are coded from
 - All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\mu\text{F}$
50WV or less are not indicated except for electrolytics and tantalums.
 - All resistors are in ohms, $\frac{1}{10}$ W unless otherwise noted.
 $\text{k}\Omega : 1000 \Omega$, $\text{M}\Omega : 1000 \text{k}\Omega$.
 - $\triangle$: internal component.
 - $\blacksquare$: signal path
 - $\square$: adjustment for repair.
 - Readings are taken under no-signal (detuned) conditions with a VOM.
 - --- : B+ bus.
 - Switch

Ref. No.	Switch	Position
S1	BAND SELECT	FM DX
S151	BAND SELECT	VHF
S601	FUNCTION	RADIO

Note: The components identified by shading and mark $\triangle$ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un tramé et une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Note: Voltages are measured with a VOM (50k Ω /V).

SECTION 5
EXPLODED VIEWS

Semiconductor Lead Layouts

2SA1162 DTC114EK 	2SD763 	AN5700 M51378L TA7343AF 	1S1555 1S2687S-1 1SS119 ERA81-005 RD3.3EB1 RD6.2EB1 RD7.5EN2
2SA1175 2SC2785-E 	2SD999 2SD1005 	M51364P 	1S2835
2SB624 2SC1622A 2SC1623 2SD596 	2SK54-B 	NJM386M TA7640AF 	1S2837 1SS153
2SB772 	2SK193 letter side 	μPC574J-G 	1SS123
2SC2458 2SC2839-E 	SLP178B 		

A B C D E F G

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NOTE:
• Items with no part number and no description are not stocked because they are seldom required for routine service.
• The construction parts of an assembled part are indicated with a collation number in the remark column.
• Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

No.	Part No.	Description	Remark
2	X-3314-011-0	HOLDER ASSY, BATTERY (US)	
	X-3564-820-0	HOLDER ASSY, BATTERY (CANADIAN)	
3	X-3316-005-1	CABINET (FRONT) SUB ASSY (US)	
	X-3316-005-2	CABINET (FRONT) SUB ASSY (CANADIAN)	
4	1-501-292-00	ANTENNA, TELESCOPIC	
5	1-503-283-00	SPEAKER, DYNAMIC	
6	▲:1-611-449-00	Z BOARD (US)	
7	▲:1-610-847-00	C BOARD	
8	3-314-021-11	STRAP, HAND	
9	3-314-023-00	LID, BATTERY CASE	
10	3-314-062-00	LABEL, CAUTION, SERVICE (US)	
11	3-316-001-00	CUSHION (SPK)	
12	▲:3-316-010-00	SUPPORT, CRT	
13	3-316-012-00	BRACKET, SPEAKER	
14	3-316-019-00	PLATE (A), CONTACT, ANTENNA	

No.	Part No.	Description	Remark
15	3-316-022-00	SCREW (2X30), CABINET	
16	3-316-023-00	SCREW (2X22), CABINET	
17	3-316-025-00	NET, SPEAKER	
18	3-316-027-00	STAND	
19	3-316-030-00	CABINET (REAR) (US)	
	3-316-030-11	CABINET (REAR) (CANADIAN)	
20	▲:3-316-040-01	PLATE	
21	3-316-045-01	KNOB, CONTROL	
23	3-701-999-00	LABEL, SERIAL NUMBER (US)	
24	3-703-710-01	STICKER, SONY SYMBOL (12)	
25	▲:1-451-229-00	DEFLECTION YOKE	
26	1-526-736-00	SOCKET, CRT	
27	▲:8-735-950-00	CRT (02JM)	
28	▲:A-3015-223-A	D BOARD, COMPLETE	

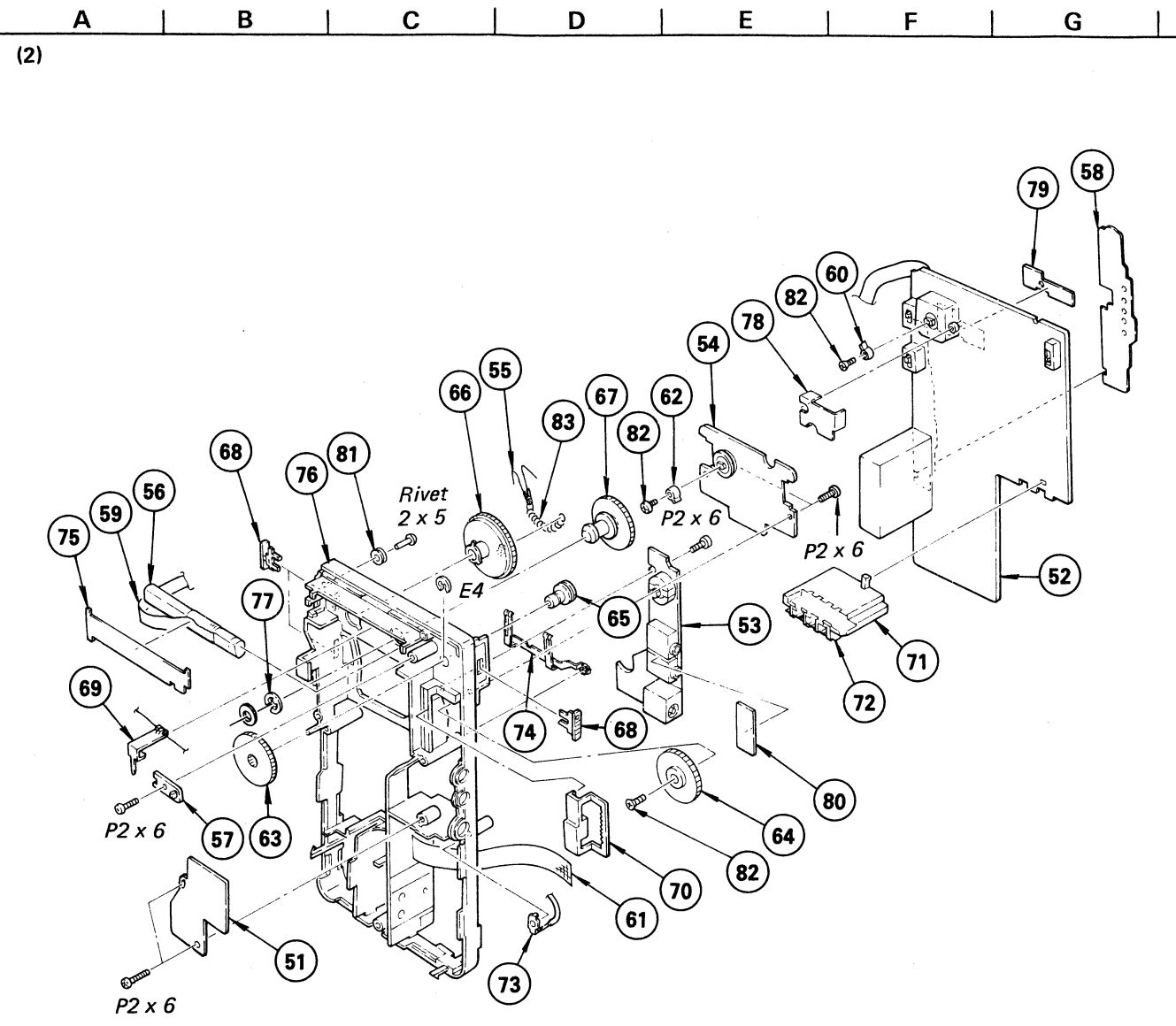
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No.	Part No.
51	▲:A-3015-223-A
52	▲:A-3015-223-A
53	▲:A-3015-223-A
54	▲:A-3015-223-A
55	▲:9-911-811-00
56	1-401-965-00
57	1-610-847-00
58	1-610-847-00
59	1-610-847-00
60	3-305-625-00
61	9-911-811-00
62	3-314-001-00
63	3-316-001-00
64	3-316-001-00
65	3-316-001-00
66	3-316-001-00
67	3-316-001-00

NOTE:
• Items with no description are seldom required for routine service.
• The construction parts of an assembled part are indicated with a collation number in the remark column.

-30-

SECTION 6
ELECTRICAL PARTS LIST

No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	▲:A-3015-218-A	K BOARD, COMPLETE		68	3-316-011-00	KNOB, SWITCH	
52	▲:A-3015-220-A	A BOARD, COMPLETE		69	3-316-014-00	POINTER	
53	▲:A-3015-221-A	G BOARD, COMPLETE		70	3-316-015-00	PLATE, INDICATION, CONTROL	
54	▲:A-3015-222-A	MPX BOARD, COMPLETE		71	3-316-016-00	HOLDER, TERMINAL	
55	▲:9-911-825-32	STRING DIAL 0.3DIA		72	3-316-018-00	PLATE, CONTACT, BATTERY	
56	1-401-969-21	ANTENNA, FERRITE-ROD (MW)		73	3-316-020-00	PLATE (B), CONTACT, ANTENNA	
57	▲ 1-610-844-00	LED BOARD		74	▲:3-316-021-00	SPRING	
58	1-610-846-00	S BOARD		75	3-316-026-00	PLATE, BACK	
59	1-610-848-00	BAR ANT BOARD		76	3-316-028-00	CHASSIS (US)	
60	3-305-625-00	CAP, TUNING CAPACITOR		77	3-316-028-11	CHASSIS (CANADIAN)	
61	9-911-816-02	CLOTH, DRAWER, BATTERY		78	3-316-035-00	WASHER, STOPPER	
62	3-314-006-00	JOINT, TUNING		79	▲:3-316-038-00	PLATE (A), SHIELD	
63	3-316-005-00	KNOB, TUNING		80	▲:3-316-039-00	PLATE (B), SHIELD	
64	3-316-006-00	KNOB, CONTROL		81	3-316-044-01	SHEET, INSULATING	
65	3-316-007-00	SHAFT, TUNING		82	3-881-911-00	PULLEY	
66	3-316-008-00	DRUM, DIAL		83	3-880-990-00	SCREW (1.7×3) FLAT, SPECIAL	
67	3-316-009-01	DRUM, CONTROL		84	3-565-758-00	SPRING	

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
▲:1-610-844-00	LED BOARD	*****		▲1-463-479-00	TUNER UNIT (UHF/VHF)		
				3-305-625-00	CAP, TUNING CAPACITOR		
				3-314-057-00	CUSHION		
				3-316-016-00	HOLDER, TERMINAL		
				3-316-018-00	PLATE, CONTACT, BATTERY		
D52	8-719-912-43	DIODE SLP178B		▲:3-316-038-00	PLATE (A), SHIELD		
				▲:3-316-039-00	PLATE (B), SHIELD		
				3-888-156-00	SCREW		
				CAPACITOR			
				C1	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C453	1-124-222-00	ELECT 22MF	20% 6.3V	C2	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C454	1-124-222-00	ELECT 22MF	20% 6.3V	C3	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C455	1-124-257-00	ELECT 2.2MF	20% 50V	C4	1-163-233-00	CERAMIC CHIP 18PF	5% 50V
C456	1-124-257-00	ELECT 2.2MF	20% 50V	C5	1-163-033-00	CERAMIC CHIP 0.022MF	50V
C457	1-124-253-00	ELECT 0.47MF	20% 50V	C6	1-163-086-00	CERAMIC CHIP 3PF	0.25PF 50V
C458	1-124-253-00	ELECT 0.47MF	20% 50V	C7	1-163-279-91	CERAMIC CHIP 2PF	0.25PF 50V
C459	1-124-225-00	ELECT 100MF	20% 6.3V	C8	1-101-003-00	CERAMIC 0.0047MF	50V
C460	1-124-225-00	ELECT 100MF	20% 6.3V	C9	1-163-071-00	CERAMIC CHIP 0.01MF	50V
C461	1-131-344-00	TANTALUM 0.33MF	20% 35V	C10	1-163-231-00	CERAMIC CHIP 15PF	5% 50V
C462	1-131-344-00	TANTALUM 0.33MF	20% 35V	C11	1-163-712-91	CERAMIC CHIP 24PF	5% 50V
C463	1-124-236-00	ELECT 47MF	20% 16V	C12	1-163-222-00	CERAMIC CHIP 5PF	0.25PF 50V
C464	1-124-222-00	ELECT 22MF	20% 6.3V	C13	1-124-255-00	ELECT 1MF	20% 50V
				C14	1-163-031-00	CERAMIC CHIP 0.01MF	50V
				C15	1-163-033-00	CERAMIC CHIP 0.022MF	50V
				IC			
IC451	8-759-700-50	IC NJM386M		C16	1-124-222-00	ELECT 22MF	20% 6.3V
IC452	8-759-700-50	IC NJM386M		C17	1-124-224-00	ELECT 47MF	20% 6.3V
				C18	1-163-033-00	CERAMIC CHIP 0.022MF	50V
				C19	1-163-033-00	CERAMIC CHIP 0.022MF	50V
				C20	1-163-033-00	CERAMIC CHIP 0.022MF	50V
				TRANSISTOR			
Q451	8-729-100-66	TRANSISTOR 2SC1623		C21	1-124-222-00	ELECT 22MF	20% 6.3V
Q452	8-729-100-66	TRANSISTOR 2SC1623		C22	1-163-031-00	CERAMIC CHIP 0.01MF	50V
				C23	1-124-253-00	ELECT 0.47MF	20% 50V
				C24	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V
				C25	1-135-091-00	CAP, CHIP TANTALUM ELECT 1MF	16V
				RESISTOR			
R451	1-216-073-00	METAL CHIP 10K 5%	1/10W	C27	1-163-033-00	CERAMIC CHIP 0.022MF	50V
R452	1-216-073-00	METAL CHIP 10K 5%	1/10W	C28	1-163-031-00	CERAMIC CHIP 0.01MF	50V
R453	1-216-073-00	METAL CHIP 10K 5%	1/10W	C29	1-163-227-00	CERAMIC CHIP 10PF	5% 50V
R454	1-216-069-00	METAL CHIP 6.8K 5%	1/10W	C30	1-163-033-00	CERAMIC CHIP 0.022MF	50V
R455	1-216-041-00	METAL CHIP 470 5%	1/10W	C31	1-163-031-00	CERAMIC CHIP 0.01MF	50V
R456	1-216-041-00	METAL CHIP 470 5%	1/10W	C32	1-163-086-00	CERAMIC CHIP 3P	50V
R457	1-216-081-00	METAL CHIP 22K 5%	1/10W	C33	1-163-033-00	CERAMIC CHIP 0.022MF	5% 50V
R458	1-216-101-00	METAL CHIP 150K 5%	1/10W	C34	1-124-233-00	ELECT 10MF	20% 16V
R459	1-216-073-00	METAL CHIP 10K 5%	1/10W	C35	1-124-255-00	ELECT 1MF	20% 50V
R460	1-216-073-00	METAL CHIP 10K 5%	1/10W	C39	1-163-193-00	CERAMIC CHIP 330PF	5% 50V
R467	1-216-073-00	METAL CHIP 10K 5%	1/10W	C40	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
R468	1-247-815-00	CARBON 220 5%	1/6W	C41	1-163-031-00	CERAMIC CHIP 0.01MF	5% 50V
				C42	1-163-086-00	CERAMIC CHIP 3PF	0.25PF 50V
				C43	1-101-003-00	CERAMIC 0.0047MF	50V
				C44	1-101-003-00	CERAMIC 0.0047MF	50V
				C45	1-101-003-00	CERAMIC 0.0047MF	50V
				C46	1-163-033-00	CERAMIC CHIP 0.022MF	50V
				CAPACITORS:			
				MF:μF, PF:μμF.			
				RESISTORS			
				All resistors are in ohms.			
				F: nonflammable			
				COILS			
				MMH: mH, UH: μH			
				SEMICONDUCTORS			
				In each case, U: μ, for example:			
				UA...: μA..., UPA...: μPA..., UPC...: μPC,			
				UPD...: μPD...			
				NOTE:			
				Items with no part number and no description are not stocked because they are seldom required for routine service.			
				Items marked "▲" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.			
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				If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.			

CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

All resistors are in ohms.

F: nonflammable

COILS

MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ, for example:

UA...: μA..., UPA...: μPA..., UPC...: μPC,

UPD...: μPD...

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Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C154	1-163-033-00	CERAMIC CHIP 0.022MF	50V	C552	1-163-080-00	CERAMIC CHIP 0.047MF	10% 25V
C155	1-163-833-00	CERAMIC CHIP 0.068MF	25V	C553	1-163-078-00	CERAMIC CHIP 0.033MF	10% 25V
C156	1-163-833-00	CERAMIC CHIP 0.068MF	25V	C554	1-163-064-00	CERAMIC CHIP 0.027MF	10% 50V
C157	1-163-833-00	CERAMIC CHIP 0.068MF	25V	C555	1-131-501-00	TANTALUM 3.3MF	10% 10V
C158	1-163-031-00	CERAMIC CHIP 0.01MF	50V	C556	1-124-223-41	ELECT 33MF	20% 6.3V
C159	1-101-004-00	CERAMIC 0.01MF	50V	C557	1-124-223-11	ELECT 33MF	20% 6.3V
C160	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C558	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C161	1-163-033-00	CERAMIC CHIP 0.022MF	50V	C559	1-124-133-00	ELECT 220MF	20% 6.3V
C162	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C560	1-163-037-00	CERAMIC CHIP 0.022MF	10% 25V
C163	1-163-033-00	CERAMIC CHIP 0.022MF	50V	C561	1-124-232-11	ELECT 6.8MF	20% 16V
C201	1-163-029-91	CERAMIC CHIP 0.0047MF	50V	C562	1-124-225-00	ELECT 100MF	20% 6.3V
C202	1-163-569-00	CERAMIC CHIP 0.001MF	5% 50V	C563	1-131-385-00	TANTALUM 22MF	20% 6.3V
C203	1-124-224-00	ELECT 47MF	20% 6.3V	C801	1-135-099-00	CAP, CHIP TANTALUM ELECT 2.2MF	6.3V
C204	1-163-071-00	CERAMIC CHIP 0.01MF	50V	C802	1-106-214-00	MYLAR 0.056MF	5% 100V
C205	1-163-027-00	CERAMIC CHIP 0.0022MF	50V	C803	1-131-387-00	TANTALUM 47MF	20% 6.3V
C206	1-163-729-91	CERAMIC CHIP 120PF	5% 50V	C804	1-124-257-00	ELECT 2.2MF	20% 50V
C207	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	C805	1-106-208-00	MYLAR 0.033MF	5% 100V
C208	1-131-404-00	TANTALUM 0.22MF	20% 35V	C806	1-124-261-00	ELECT 10MF	20% 50V
C209	1-124-237-00	ELECT 3.3MF	20% 25V	C808	1-124-233-00	ELECT 10MF	20% 16V
C210	1-163-115-00	CERAMIC CHIP 82PF	5% 50V	C809	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C212	1-131-387-00	TANTALUM 47MF	20% 6.3V	C811	1-163-031-00	CERAMIC CHIP 0.01MF	50V
C213	1-163-729-91	CERAMIC CHIP 120PF	5% 50V	C813	1-163-027-00	CERAMIC CHIP 0.0022MF	50V
C214	1-124-225-00	ELECT 100MF	20% 6.3V	C814	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
C251	1-163-369-91	CERAMIC CHIP 47PF	5% 50V	C822	1-124-233-00	ELECT 10MF	20% 16V
C252	1-163-031-00	CERAMIC CHIP 0.01MF	50V	C851	1-124-222-00	ELECT 22MF	20% 6.3V
C253	1-124-224-00	ELECT 47MF	20% 6.3V	C852	1-135-073-00	CAP, CHIP TANTALUM ELECT 0.33MF	35V
C254	1-163-351-00	CERAMIC CHIP 8PF	0.25PF 50V	C853	1-124-233-00	ELECT 10MF	20% 16V
C255	1-163-031-00	CERAMIC CHIP 0.01MF	50V	C854	1-131-419-00	TANTALUM 2.2MF	20% 10V
C256	1-124-225-00	ELECT 100MF	20% 6.3V	C855	1-124-225-00	ELECT 100MF	20% 6.3V
C257	1-163-064-00	CERAMIC CHIP 0.027MF	10% 50V	C856	1-163-833-00	CERAMIC CHIP 0.068MF	25V
C259	1-124-222-00	ELECT 22MF	20% 6.3V	C857	1-163-021-00	CERAMIC CHIP 0.01MF	10% 50V
C301	1-163-125-00	CERAMIC CHIP 220PF	5% 50V	C858	1-163-013-00	CERAMIC CHIP 0.0022MF	10% 50V
C302	1-123-617-00	ELECT 10MF	20% 16V				
C303	1-163-033-00	CERAMIC CHIP 0.022MF	50V				
C401	1-163-129-00	CERAMIC CHIP 330PF	5% 50V				
C402	1-124-413-00	ELECT 220MF	20% 4V				
C403	1-163-125-00	CERAMIC CHIP 220PF	5% 50V				
C405	1-163-076-00	CERAMIC CHIP 0.068MF	50V				
C501	1-163-078-00	CERAMIC CHIP 0.033MF	10% 25V				
C502	1-123-611-00	ELECT 1MF	20% 50V				
C503	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V				
C504	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V				
C505	1-163-023-00	CERAMIC CHIP 0.015MF	10% 50V				
C506	1-131-417-00	TANTALUM 3.3MF	20% 16V				
C507	1-131-402-00	TANTALUM 0.1MF	20% 35V				
C508	1-108-583-00	MYLAR 0.015MF	5% 50V				
C509	1-130-497-00	MYLAR 0.15MF	5% 50V				
C510	1-124-222-00	ELECT 22MF	20% 6.3V				
C511	1-124-255-00	ELECT 1MF	20% 50V				
C512	1-124-225-00	ELECT 100MF	20% 6.3V				
C513	1-163-125-00	CERAMIC CHIP 220PF	5% 50V				
C514	1-163-137-00	CERAMIC CHIP 680PF	5% 50V				
C551	1-163-078-00	CERAMIC CHIP 0.033MF	10% 25V				

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UPD...: μPD...

FILTER

CF1	1-527-879-61	FILTER, CERAMIC
CF2	1-527-879-61	FILTER, CERAMIC
CF251	1-567-115-00	FILTER, CERAMIC
CF301	1-409-370-00	TRAP, CERAMIC 4.5MHZ

CAPACITOR TUNING

CT1	1-151-451-00	CAP, TUNING, POLYETHYLENE
CT2	1-151-451-00	CAP, TUNING, POLYETHYLENE
CT3	1-151-451-00	CAP, TUNING, POLYETHYLENE
CT4	1-151-451-00	CAP, TUNING, POLYETHYLENE

CV1	1-151-451-00	CAP, TUNING, POLYETHYLENE
CV2	1-151-451-00	CAP, TUNING, POLYETHYLENE
CV3	1-151-451-00	CAP, TUNING, POLYETHYLENE
CV4	1-151-451-00	CAP, TUNING, POLYETHYLENE

DIODE

D1	8-719-108-01	DIODE 1SS153
D2	8-719-108-01	DIODE 1SS153
D3	8-719-768-71	DIODE 1S2687S-1

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
D4	8-719-911-19	DIODE 1SS119		JR801	1-216-296-00	METAL CHIP 0 5% 1/8W	
D5	8-719-911-19	DIODE 1SS119		JR802	1-216-296-00	METAL CHIP 0 5% 1/8W	
D6	8-719-108-01	DIODE 1SS153		JR803	1-216-295-00	METAL CHIP 0 5% 1/10W	
D152	8-719-108-01	DIODE 1SS153		JR851	1-216-295-00	METAL CHIP 0 5% 1/10W	
D201	8-719-911-19	DIODE 1SS119		JR852	1-216-295-00	METAL CHIP 0 5% 1/10W	
D501	8-719-100-03	DIODE 1S2835		<u>COIL</u>			
D502	8-719-100-20	DIODE RD3.9EB1		L1	1-425-350-00	COIL, HIGH FREQUENCY(FM)	
D551	8-719-815-55	DIODE 1S1555		L2	1-459-410-00	COIL (WITH CORE)	
D552	8-719-815-55	DIODE 1S1555		L3	1-408-579-00	MICRO INDUCTOR 220UH	
D553	8-719-100-05	DIODE 1S2837		L4	1-408-563-00	MICRO INDUCTOR 10UH	
D801	8-719-911-19	DIODE 1SS119		L201	1-459-299-00	COIL, WITH CORE	
D802	8-719-908-06	DIODE ERA81-005		L202	1-405-325-00	COIL	
D803	8-719-911-19	DIODE 1SS119		L203	1-404-446-00	COIL, VIF DETECTOR	
D804	8-719-101-23	DIODE 1SS123		L251	1-404-387-00	COIL, FM DETECTOR	
D806	8-719-911-19	DIODE 1SS119		L501	1-408-098-00	MICRO INDUCTOR 560UH	
D807 Δ	8-719-102-81	DIODE RD7.5EN2		L551	1-408-088-00	MICRO INDUCTOR 220UH	
D808 Δ	8-719-102-81	DIODE RD7.5EN2		L801	1-408-121-00	MICRO INDUCTOR 22UH	
D809	8-719-100-37	DIODE RD6.2EB1		<u>FILTER</u>			
D851	8-719-101-23	DIODE 1SS123		MF1	1-567-058-00	FILTER, MECHANICAL	
<u>FILTER</u>				<u>TRANSISTOR</u>			
FL1	1-235-253-00	FILTER, BAND PASS		Q1	8-729-119-32	TRANSISTOR 2SK193	
<u>IC</u>				Q2	8-729-883-92	TRANSISTOR 2SC2839-E	
IC1	8-759-201-70	IC TA7640AF		Q3	8-729-883-92	TRANSISTOR 2SC2839-E	
IC151	8-759-400-03	IC AN5700		Q4	8-729-883-92	TRANSISTOR 2SC2839-E	
IC152	8-759-157-41	IC UPC574J-G		Q5	8-729-305-41	TRANSISTOR 2SK54-B	
IC201	8-759-600-13	IC M51364P		Q6	8-729-245-83	TRANSISTOR 2SC2458	
IC251	8-759-600-46	IC M51378L		Q7	8-729-245-83	TRANSISTOR 2SC2458	
<u>RESISTOR</u>				Q8	8-729-100-66	TRANSISTOR 2SC1623	
JR1	1-216-296-00	METAL CHIP 0 5% 1/8W		Q151	8-729-100-66	TRANSISTOR 2SC1623	
JR4	1-216-295-00	METAL CHIP 0 5% 1/10W		Q152	8-729-216-22	TRANSISTOR 2SA1162	
JR151	1-216-295-00	METAL CHIP 0 5% 1/10W		Q153	8-729-216-22	TRANSISTOR 2SA1162	
JR152	1-216-296-00	METAL CHIP 0 5% 1/8W		Q154	8-729-216-22	TRANSISTOR 2SA1162	
JR153	1-216-295-00	METAL CHIP 0 5% 1/10W		Q155	8-729-100-66	TRANSISTOR 2SC1623	
JR155	1-216-295-00	METAL CHIP 0 5% 1/10W		Q156	8-729-100-66	TRANSISTOR 2SC1623	
JR156	1-216-295-00	METAL CHIP 0 5% 1/10W		Q157	8-729-100-66	TRANSISTOR 2SC1623	
JR157	1-216-295-00	METAL CHIP 0 5% 1/10W		Q158	8-729-117-54	TRANSISTOR 2SA1175	
JR158	1-216-295-00	METAL CHIP 0 5% 1/10W		Q201	8-729-100-66	TRANSISTOR 2SC1623	
JR201	1-216-295-00	METAL CHIP 0 5% 1/10W		Q202	8-729-178-55	TRANSISTOR 2SC2785-E	
JR202	1-216-296-00	METAL CHIP 0 5% 1/8W		Q251	8-729-245-83	TRANSISTOR 2SC2458	
JR203	1-216-295-00	METAL CHIP 0 5% 1/10W		Q252	8-729-245-83	TRANSISTOR 2SC2458	
JR204	1-216-295-00	METAL CHIP 0 5% 1/10W		Q253	8-729-245-83	TRANSISTOR 2SC2458	
JR205	1-216-295-00	METAL CHIP 0 5% 1/10W		Q254	8-729-245-83	TRANSISTOR 2SC2458	
JR251	1-216-295-00	METAL CHIP 0 5% 1/10W		Q301	8-729-100-66	TRANSISTOR 2SC1623	
JR301	1-216-295-00	METAL CHIP 0 5% 1/10W		Q302	8-729-100-66	TRANSISTOR 2SC1623	
JR302	1-216-295-00	METAL CHIP 0 5% 1/10W		Q303	8-729-100-66	TRANSISTOR 2SC1623	
JR401	1-216-295-00	METAL CHIP 0 5% 1/10W		Q401	8-729-100-66	TRANSISTOR 2SC1623	
JR501	1-216-295-00	METAL CHIP 0 5% 1/10W		Q402	8-729-900-53	TRANSISTOR DTC114EK	
JR502	1-216-295-00	METAL CHIP 0 5% 1/10W		Q403	8-729-103-16	TRANSISTOR 2SC1622A	
JR551	1-216-295-00	METAL CHIP 0 5% 1/10W		Q501	8-729-216-22	TRANSISTOR 2SA1162	
JR552	1-216-296-00	METAL CHIP 0 5% 1/8W		Q502	8-729-100-66	TRANSISTOR 2SC1623	

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
Q551	8-729-100-66	TRANSISTOR 2SC1623		R156	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
Q552	8-729-100-66	TRANSISTOR 2SC1623		R157	1-216-073-00	METAL CHIP 10K 5%	1/10W
Q553	8-729-159-64	TRANSISTOR 2SD596		R158	1-216-047-00	METAL CHIP 820 5%	1/10W
Q554	8-729-102-44	TRANSISTOR 2SB624		R159	1-216-097-00	METAL CHIP 100K 5%	1/10W
Q801	8-729-100-66	TRANSISTOR 2SC1623		R160	1-216-105-00	METAL CHIP 220K 5%	1/10W
Q802	8-729-300-31	TRANSISTOR 2SD763		R161	1-216-097-00	METAL CHIP 100K 5%	1/10W
Q803	8-729-100-66	TRANSISTOR 2SC1623		R162	1-216-109-00	METAL CHIP 330K 5%	1/10W
Q804	8-729-300-31	TRANSISTOR 2SD763		R163	1-216-087-00	METAL CHIP 39K 5%	1/10W
Q805	8-729-103-72	TRANSISTOR 2SD1005		R164	1-216-105-00	METAL CHIP 220K 5%	1/10W
Q851	8-729-216-22	TRANSISTOR 2SA1162		R165	1-216-097-00	METAL CHIP 100K 5%	1/10W
Q852	8-729-100-66	TRANSISTOR 2SC1623		R166	1-216-073-00	METAL CHIP 10K 5%	1/10W
Q853	8-729-159-64	TRANSISTOR 2SD596		R167	1-216-105-00	METAL CHIP 220K 5%	1/10W
Q854	8-729-159-64	TRANSISTOR 2SD596		R168	1-216-085-00	METAL CHIP 33K 5%	1/10W
Q855	8-729-103-16	TRANSISTOR 2SC1623A		R169	1-216-073-00	METAL CHIP 10K 5%	1/10W
Q856	8-729-199-92	TRANSISTOR 2SD999		R201	1-216-032-00	METAL CHIP 200 5%	1/10W
RESISTOR				R203	1-216-029-00	METAL CHIP 150 5%	1/10W
R1	1-216-073-00	METAL CHIP 10K 5%	1/10W	R204	1-216-081-00	METAL CHIP 22K 5%	1/10W
R2	1-216-089-00	METAL CHIP 47K 5%	1/10W	R205	1-216-073-00	METAL CHIP 10K 5%	1/10W
R3	1-216-089-00	METAL CHIP 47K 5%	1/10W	R206	1-216-072-00	METAL CHIP 9.1K 5%	1/10W
R4	1-216-025-00	METAL CHIP 100 5%	1/10W	R207	1-216-040-00	METAL CHIP 430 5%	1/10W
R5	1-216-107-00	METAL CHIP 270K 5%	1/10W	R208	1-216-069-00	METAL CHIP 6.8K 5%	1/10W
R6	1-216-038-00	METAL CHIP 360 5%	1/10W	R209	1-216-027-00	METAL CHIP 120 5%	1/10W
R7	1-216-033-00	METAL CHIP 220 5%	1/10W	R210	1-216-077-00	METAL CHIP 15K 5%	1/10W
R8	1-247-841-00	CARBON 2.7K 5%	1/6W	R211	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R9	1-216-089-00	METAL CHIP 47K 5%	1/10W	R213	1-216-092-00	METAL CHIP 62K 5%	1/10W
R10	1-216-025-00	METAL CHIP 100 5%	1/10W	R214	1-216-101-00	METAL CHIP 150K 5%	1/10W
R11	1-216-097-00	METAL CHIP 100K 5%	1/10W	R251	1-216-049-00	METAL CHIP 1K 5%	1/10W
R12	1-216-092-00	METAL CHIP 62K 5%	1/10W	R252	1-216-092-00	METAL CHIP 62K 5%	1/10W
R13	1-216-025-00	METAL CHIP 100 5%	1/10W	R255	1-216-068-00	METAL CHIP 6.2K 5%	1/10W
R14	1-216-038-00	METAL CHIP 360 5%	1/10W	R257	1-216-094-00	METAL CHIP 75K 5%	1/10W
R15	1-216-044-00	METAL CHIP 620 5%	1/10W	R258	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R16	1-216-073-00	METAL CHIP 10K 5%	1/10W	R259	1-216-049-00	METAL CHIP 1K 5%	1/10W
R17	1-216-049-00	METAL CHIP 1K 5%	1/10W	R260	1-247-823-00	CARBON 470 5%	1/6W
R18	1-216-095-00	METAL CHIP 82K 5%	1/10W	R261	1-216-073-00	METAL CHIP 10K 5%	1/10W
R19	1-216-049-00	METAL CHIP 1K 5%	1/10W	R301	1-216-051-00	METAL CHIP 1.2K 5%	1/10W
R20	1-216-238-00	METAL CHIP 47K 5%	1/8W	R302	1-216-022-00	METAL CHIP 75 5%	1/10W
R21	1-247-879-00	CARBON 100K 5%	1/6W	R304	1-216-078-00	METAL CHIP 16K 5%	1/10W
R22	1-216-073-00	METAL CHIP 10K 5%	1/10W	R305	1-216-079-00	METAL CHIP 18K 5%	1/10W
R23	1-216-085-00	METAL CHIP 33K 5%	1/10W	R306	1-216-049-00	METAL CHIP 1K 5%	1/10W
R24	1-216-025-00	METAL CHIP 100 5%	1/10W	R307	1-216-056-00	METAL CHIP 2K 5%	1/10W
R25	1-216-085-00	METAL CHIP 33K 5%	1/10W	R308	1-216-051-00	METAL CHIP 1.2K 5%	1/10W
R26	1-216-079-00	METAL CHIP 18K 5%	1/10W	R309	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R27	1-247-783-00	CARBON 10 5%	1/6W	R401	1-216-073-00	METAL CHIP 10K 5%	1/10W
R28	1-216-033-00	METAL CHIP 220 5%	1/10W	R402	1-216-051-00	METAL CHIP 1.2K 5%	1/10W
R29	1-216-065-00	METAL CHIP 4.7K 5%	1/10W	R403	1-216-049-00	METAL CHIP 1K 5%	1/10W
R30	1-216-073-00	METAL CHIP 10K 5%	1/10W	R404	1-216-105-00	METAL CHIP 220K 5%	1/10W
R31	1-216-097-00	METAL CHIP 100K 5%	1/10W	R405	1-216-101-00	METAL CHIP 150K 5%	1/10W
R151	1-216-051-00	METAL CHIP 1.2K 5%	1/10W	R406	1-216-106-00	METAL CHIP 240K 5%	1/10W
R152	1-216-047-00	METAL CHIP 820 5%	1/10W	R408	1-216-129-00	METAL CHIP 2.2M 5%	1/10W
R153	1-216-051-00	METAL CHIP 1.2K 5%	1/10W	R409	1-216-051-00	METAL CHIP 1.2K 5%	1/10W
R154	1-216-065-00	METAL CHIP 4.7K 5%	1/10W	R410	1-216-121-00	METAL CHIP 1M 5%	1/10W
R155	1-216-065-00	METAL CHIP 4.7K 5%	1/10W	R411	1-216-085-00	METAL CHIP 33K 5%	1/10W
				R412	1-216-092-00	METAL CHIP 62K 5%	1/10W

NOTE:

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- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF: μF, PF: μμF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:

UA.... : μA..., UPA.... : μPA..., UPC.... : μPC,

UPD.... : μPD...

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R501	1-216-027-00	METAL CHIP 120 5%	1/10W	R858	1-216-041-00	METAL CHIP 470 5%	1/10W
R502	1-216-061-00	METAL CHIP 3.3K 5%	1/10W	R859	1-216-099-00	METAL CHIP 120K 5%	1/10W
R503	1-216-085-00	METAL CHIP 33K 5%	1/10W	R860	1-216-073-00	METAL CHIP 10K 5%	1/10W
R504	1-216-099-00	METAL CHIP 120K 5%	1/10W	R861	1-216-097-00	METAL CHIP 100K 5%	1/10W
R505	1-216-047-00	METAL CHIP 820 5%	1/10W	R862	1-216-089-00	METAL CHIP 47K 5%	1/10W
R506	1-216-065-00	METAL CHIP 4.7K 5%	1/10W	R863	1-216-102-00	METAL CHIP 160K 5%	1/10W
R507	1-216-059-00	METAL CHIP 2.7K 5%	1/10W	R864	1-216-073-00	METAL CHIP 10K 5%	1/10W
R508	1-216-049-00	METAL CHIP 1K 5%	1/10W	R865	1-216-049-00	METAL CHIP 1K 5%	1/10W
R509	1-216-047-00	METAL CHIP 820 5%	1/10W	R866	1-216-049-00	METAL CHIP 1K 5%	1/10W
R510	1-216-065-00	METAL CHIP 4.7K 5%	1/10W	R867	1-216-097-00	METAL CHIP 100K 5%	1/10W
R511	1-216-077-00	METAL CHIP 15K 5%	1/10W	<u>VARIABLE RESISTOR</u>			
R512	1-216-009-00	METAL CHIP 22 5%	1/10W	RV152	1-230-243-00	RES, ADJ, CARBON 100K	
R513	1-216-031-00	METAL CHIP 180 5%	1/10W	RV153	1-230-215-00	RES, METAL GLAZE 100K	
R514	1-216-018-00	METAL CHIP 51 5%	1/10W	RV154	1-230-244-00	RES, ADJ, CARBON 200K	
R515	1-216-056-00	METAL CHIP 2K 5%	1/10W	RV155	1-230-243-00	RES, ADJ, CARBON 100K	
R516	1-216-097-00	METAL CHIP 100K 5%	1/10W	RV156	1-230-244-00	RES, ADJ, CARBON 200K	
R517	1-216-037-00	METAL CHIP 330 5%	1/10W	RV157	1-230-243-00	RES, ADJ, CARBON 100K	
R518	1-216-025-00	METAL CHIP 100 5%	1/10W	RV201	1-230-242-00	RES, ADJ, CARBON 10K	
R519	1-216-029-00	METAL CHIP 150 5%	1/10W	RV401	1-226-430-00	RES, ADJ, CARBON 5K	
R551	1-216-072-00	METAL CHIP 9.1K 5%	1/10W	RV551	1-226-435-00	RES, ADJ, CARBON 200K	
R552	1-216-075-00	METAL CHIP 12K 5%	1/10W	RV552	1-230-036-00	RES, ADJ, CARBON 20K	
R553	1-216-085-00	METAL CHIP 33K 5%	1/10W	RV553	1-228-811-00	RES, ADJ, CARBON 1K	
R554	1-216-045-00	METAL CHIP 680 5%	1/10W	RV851	1-230-036-00	RES, ADJ, CARBON 20K	
R555	1-216-073-00	METAL CHIP 10K 5%	1/10W	RV852	1-230-035-00	RES, ADJ, CARBON 10K	
R556	1-216-302-00	METAL CHIP 2.7 5%	1/10W	<u>SWITCH</u>			
R557	1-216-007-00	METAL CHIP 18 5%	1/10W	S1	1-554-640-00	SWITCH, SLIDE (FM DX/FM LOCAL/AM)	
R558	1-216-072-00	METAL CHIP 9.1K 5%	1/10W	S151	1-554-078-00	SWITCH, SLIDE (VHF/UHF)	
R559	1-216-086-00	METAL CHIP 36K 5%	1/10W	S601	1-554-640-00	SWITCH, SLIDE (FUNCTION)	
R560	1-216-053-00	METAL CHIP 1.5K 5%	1/10W	<u>TRANSFORMER</u>			
R561	1-216-051-00	METAL CHIP 1.2K 5%	1/10W	T1	1-404-398-00	TRANSFORMER, IF	
R562	1-216-310-00	METAL CHIP 6.2 5%	1/10W	T2	1-404-399-00	TRANSFORMER, DISCRIMINATOR	
R563	1-216-044-00	METAL CHIP 620 5%	1/10W	T3	1-404-129-00	IFT (SMALL TYPE)	
R564	1-216-045-00	METAL CHIP 680 5%	1/10W	T4	1-406-017-00	COIL, OSCILLATOR (MW)	
R565	1-216-053-00	METAL CHIP 1.5K 5%	1/10W	T251	1-404-459-00	SIFT	
R566	1-216-298-00	METAL CHIP 2.2 5%	1/10W	T501	1-406-051-00	COIL, HORIZONTAL OSC	
R567	1-216-298-00	METAL CHIP 2.2 5%	1/10W	T802	1-439-313-00	TRANSFORMER, HORIZONTAL OUTPUT	
R801	1-216-035-00	METAL CHIP 270 5%	1/10W	<u>THERMISTOR</u>			
R802	1-216-033-00	METAL CHIP 220 5%	1/10W	TH501	1-800-193-00	THERMISTOR (DIRECT-HEATING DISK)	
R803	1-216-041-00	METAL CHIP 470 5%	1/10W	TH551	1-800-198-XX	THERMISTOR S-1K	
R804	1-216-033-00	METAL CHIP 220 5%	1/10W	*****			
R805	1-216-224-00	METAL CHIP 12K 5%	1/8W	A-3015-221-A G BOARD, COMPLETE			
R806	1-216-065-00	METAL CHIP 4.7K 5%	1/10W	*****			
R812	1-216-041-00	METAL CHIP 470 5%	1/10W	3-316-020-00 PLATE (B), CONTACT, ANTENNA			
R813	1-216-041-00	METAL CHIP 470 5%	1/10W	<u>CAPACITOR</u>			
R814	1-216-044-00	METAL CHIP 620 5%	1/10W	C451	1-135-091-00	TANTALUM, CHIP 1MF	20% 16V
R851	1-216-073-00	METAL CHIP 10K 5%	1/10W	C452	1-135-091-00	TANTALUM, CHIP 1MF	20% 16V
R852	1-216-073-00	METAL CHIP 10K 5%	1/10W				
R853	1-216-079-00	METAL CHIP 18K 5%	1/10W				
R854	1-216-079-00	METAL CHIP 18K 5%	1/10W				
R855	1-216-065-00	METAL CHIP 4.7K 5%	1/10W				
R856	1-216-092-00	METAL CHIP 62K 5%	1/10W				
R857	1-216-056-00	METAL CHIP 2K 5%	1/10W				

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked "A" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (A-ΔΔΔ-ΔΔΔ-XX or A-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:μF, PF:μuF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:

UA...: μA..., UPA...: μPA..., UPC...: μPC,

UPD...: μPD...

The components identified by shading and mark A are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C601	1-124-236-00	ELECT 47MF	20% 16V	•:A-3015-222-A	MPX BOARD, COMPLETE		
C602	1-163-125-00	CERAMIC CHIP 220PF	5% 50V		*****		
C603	1-124-223-41	ELECT 33MF	20% 6.3V	3-314-006-00	JOINT, TUNING		
C604	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	3-888-156-00	SCREW		
C605	1-163-109-00	CERAMIC CHIP 47PF	5% 50V				
<u>CONNECTOR</u>				<u>CAPACITOR</u>			
CN601	1-507-749-00	CONNECTOR (DC IN 6V)		C51	1-135-091-00	CAP, CHIP TANTALUM ELECT 1MF	16V
<u>DIODE</u>				C52	1-135-083-00	CAP, CHIP TANTALUM ELECT 0.47MF	25V
D601	8-719-100-16	DIODE RD3.3EB1		C53	1-124-222-00	ELECT 22MF	20% 6.3V
D602	8-719-101-23	DIODE 1SS123		C54	1-163-569-00	CERAMIC CHIP 0.001MF	5% 50V
D603	8-719-101-23	DIODE 1SS123		C55	1-135-091-00	CAP, CHIP TANTALUM ELECT 1MF	16V
<u>JACK</u>				C56	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
J301	1-507-838-31	JACK (VIDEO IN)		C57	1-163-064-00	CERAMIC CHIP 0.027MF	10% 50V
J601	1-507-838-00	JACK (PHONES)		C58	1-163-064-00	CERAMIC CHIP 0.027MF	10% 50V
<u>RESISTOR</u>				<u>DIODE</u>			
JR351	1-216-295-00	METAL CHIP 0	5% 1/10W	D51	8-719-100-03	DIODE 1S2835	
JR451	1-216-296-00	METAL CHIP 0	5% 1/8W	<u>IC</u>			
JR601	1-216-296-00	METAL CHIP 0	5% 1/8W	IC51	8-759-201-71	IC TA7343AF	
<u>COIL</u>				<u>RESISTOR</u>			
L451	1-408-563-00	MICRO INDUCTOR 10UH		R51	1-216-049-00	METAL CHIP 1K	5% 1/10W
L452	1-408-563-00	MICRO INDUCTOR 10UH		R52	1-216-072-00	METAL CHIP 9.1K	5% 1/10W
L453	1-407-157-XX	MICRO INDUCTOR 10UH		R53	1-216-044-00	METAL CHIP 620	5% 1/10W
<u>TRANSISTOR</u>				R54	1-216-105-00	METAL CHIP 220K	5% 1/10W
Q601	8-729-177-23	TRANSISTOR 2SB772		R55	1-216-061-00	METAL CHIP 3.3K	5% 1/10W
Q602	8-729-100-66	TRANSISTOR 2SC1623		R56	1-216-061-00	METAL CHIP 3.3K	5% 1/10W
<u>RESISTOR</u>				R57	1-216-061-00	METAL CHIP 3.3K	5% 1/10W
R170	1-216-085-00	METAL CHIP 33K	5% 1/10W	R58	1-216-061-00	METAL CHIP 3.3K	5% 1/10W
R303	1-216-022-00	METAL CHIP 75	5% 1/10W	<u>VARIABLE RESISTOR</u>			
R461	1-216-039-00	METAL CHIP 390	5% 1/10W	RV51	1-228-357-00	RES, ADJ, METAL GLAZE 4.7K	
R462	1-216-039-00	METAL CHIP 390	5% 1/10W	RV151	1-230-040-21	RES, VAR, CARBON 200K (TUNING)	
R463	1-216-152-00	METAL CHIP 12	5% 1/8W	*****			
R464	1-216-152-00	METAL CHIP 12	5% 1/8W	•:A-3015-223-A	D BOARD, COMPLETE		
R465	1-247-797-00	CARBON 39	5% 1/6W		*****		
R466	1-216-073-00	METAL CHIP 10K	5% 1/10W	•:1-610-841-00	D BOARD		
R601	1-216-049-00	METAL CHIP 1K	5% 1/10W	•:1-610-847-00	C BOARD		
R602	1-216-033-00	METAL CHIP 220	5% 1/10W	1-526-736-00	SOCKET CRT		
R603	1-216-322-00	CARBON CHIP 5.6K	1% 1/8W	3-316-309-00	INSULATOR		
R604	1-216-322-00	CARBON CHIP 5.6K	1% 1/8W	<u>CAPACITOR</u>			
R605	1-216-085-00	METAL CHIP 33K	5% 1/10W	C404	1-163-076-00	CERAMIC CHIP 0.068MF	50V
<u>VARIABLE RESISTOR</u>				C406	1-163-035-00	CERAMIC CHIP 0.047MF	50V
RV451	1-230-260-00	RES, VAR, CARBON 10K/10K (VOLUME)		C809	1-124-133-00	ELECT 220MF	20% 6.3V
RV601	1-230-263-00	RES, ADJ, METAL GLAZE 2.2K		C810	1-162-146-00	CERAMIC 0.001MF	1KV
				C811	1-162-147-00	CERAMIC 0.0022MF	1KV
				C812	1-102-038-00	CERAMIC 0.001MF	99% 500V

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CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

All resistors are in ohms.

F: nonflammable

COILS

MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ, for example:

UA...: μA..., UPA...: μPA..., UPC...: μPC,

UPD...: μPD...

Ref.No.	Part No.	Description	Remark
<u>RESISTOR</u>			
R807	1-202-727-00	SOLID 4.7M 10% 1/2W	
R808	1-216-280-00	METAL CHIP 2.7M 5% 1/8W	
R809	1-216-280-00	METAL CHIP 2.7M 5% 1/8W	
R810	1-216-260-00	METAL CHIP 390K 5% 1/8W	
R811	1-216-105-00	METAL CHIP 220K 5% 1/10W	

VARIABLE RESISTOR

RV801	1-228-573-00	RES, ADJ, CARBON 2M	
RV802	1-230-241-00	RES, ADJ, CARBON 4.7M	

TRANSFORMER

T801	1-439-309-00	TRANSFORMER ASSY, FLYBACK	
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 ♣:1-611-449-00 Z BOARD (US)

CAPACITOR

C465	1-124-505-00	ELECT 1000MF 20% 10V	
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MISCELLANEOUS

♠	1-451-229-00	DEFLECTION YOKE	
	1-526-736-00	SOCKET, CRT	
♣	1-610-847-00	PC BOARD, C	
	1-610-848-00	PC BOARD, BAR ANT	
♠	8-735-950-00	CRT (02JM)	
ANT1	1-501-292-00	ANTENNA, TELSCOPIC	
ANT2	1-401-969-21	ANTENNA, FERRITE-ROD (MW)	
SP901	1-503-283-00	SPEAKER, DYNAMIC	

ACCESSORIES AND PACKING MATERIALS

Part No.	Description	Remark
3-316-046-01	CASE, CARRYING	
1-463-440-00	ADAPTOR, AC (CANADIAN)	
3-316-031-01	SPACER (B) (US)	
3-316-032-01	INDIVIDUAL CARTON (US)	
3-316-033-01	SPACER (A) (US)	
3-316-050-00	SPACER (C) (CANADIAN)	
3-316-034-01	CUSHION	
3-316-043-01	INDIVIDUAL CARTON (CANADIAN)	
3-773-613-21	MANUAL, INSTRUCTION (US)	
3-773-613-31	MANUAL, INSTRUCTION (CANADIAN)	
3-795-748-21	SAFETY INSTRUCTIONS, HEADPHONE (US)	
3-881-410-00	BAG, PROTECTION	
8-951-171-90	MDR-20L SET (US)	

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- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:μF, PF:μμF.

RESISTORS

- All resistors are in ohms.
- F: nonflammable

COILS

MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ, for example:
 UA...: μA..., UPA...: μPA..., UPC...: μPC,
 UPD...: μPD...

The components identified by shading and mark ♠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque ♠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

FD-30A

SERVICE MANUAL

US Model

No. 3
June, 1984

SUPPLEMENT

File this supplement with the service manual.

Subject: Cabinet Addition

The front cabinet (sub) ass'ys with American football team mark have been designed.

Add the following parts to the parts list on page 30 in the FD-30A service manual.

The reference number is ③ .

GENERAL SECTION

<u>Part No.</u>	<u>Team</u>	<u>Description</u>
X-3316-019-1	(PATRIOTS).....	CABINET, FRONT (SUB) ASSY
X-3316-019-2	(GIANTS).....	CABINET, FRONT (SUB) ASSY
X-3316-019-3	(JETS).....	CABINET, FRONT (SUB) ASSY
X-3316-019-4	(EAGLES).....	CABINET, FRONT (SUB) ASSY
X-3316-019-5	(FALCONS).....	CABINET, FRONT (SUB) ASSY
X-3316-019-6	(BROWNS).....	CABINET, FRONT (SUB) ASSY
X-3316-019-7	(BEARS).....	CABINET, FRONT (SUB) ASSY
X-3316-019-8	(COWBOYS).....	CABINET, FRONT (SUB) ASSY
X-3316-019-9	(BRONCOS).....	CABINET, FRONT (SUB) ASSY
X-3316-020-1	(LIONS).....	CABINET, FRONT (SUB) ASSY
X-3316-020-2	(PACKERS).....	CABINET, FRONT (SUB) ASSY
X-3316-020-3	(CHIEFS).....	CABINET, FRONT (SUB) ASSY
X-3316-020-4	(DOLPHINS).....	CABINET, FRONT (SUB) ASSY
X-3316-020-5	(VIKINGS).....	CABINET, FRONT (SUB) ASSY
X-3316-020-6	(SAINTS).....	CABINET, FRONT (SUB) ASSY
X-3316-020-7	(STEALERS).....	CABINET, FRONT (SUB) ASSY
X-3316-020-8	(CARDINALS)...	CABINET, FRONT (SUB) ASSY
X-3316-020-9	(BUCCANEERS)...	CABINET, FRONT (SUB) ASSY
X-3316-021-1	(REDSKINS).....	CABINET, FRONT (SUB) ASSY
X-3316-021-2	(RAIDERS).....	CABINET, FRONT (SUB) ASSY
X-3316-021-3	(RAMS).....	CABINET, FRONT (SUB) ASSY
X-3316-021-4	(CHARGERS).....	CABINET, FRONT (SUB) ASSY
X-3316-021-5	(49ERS).....	CABINET, FRONT (SUB) ASSY
X-3316-021-6	(SEAHAWKS).....	CABINET, FRONT (SUB) ASSY

**FLAT B/W TV-FM STEREO/AM
RECEIVER**

SONY®

9-963-177-83

Sony Corporation

B&W

English
84F0539-1
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FD-30A

SERVICE MANUAL

SUPPLEMENT

File this supplement with the service manual.

US Model
Canadian Model

No.1
November, 1983

When repairing the following parts, make sure of the operation of high-voltage hold down circuit.

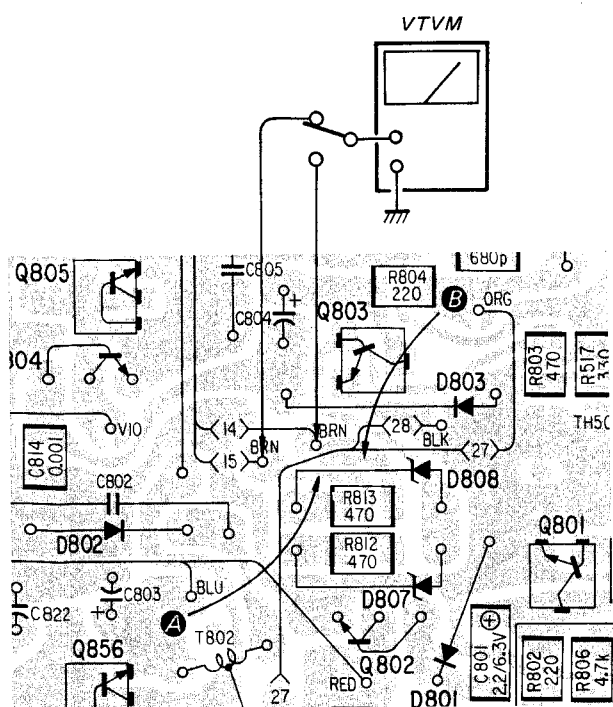
Repairing portion:

- Circuit around Q803
- D807, 808, R812, 813 replacement
- Circuit around Q601, 602

Procedure:

1. Cut the pattern **A** of A board.
2. Supply the voltage from DC IN jack so that the VTVM reads 7.76 V.
3. Confirm that the raster appears at that time.
4. Supply the voltage from DC IN jack so that the VTVM reads 8.77 V.
5. Confirm that the raster disappears at that time.
6. Connect the pattern **A** and cut the pattern **B**. Then, repeat the steps 2 – 5.
7. After confirming, connect the pattern **B**.

Note: When cutting pattern **A**, connect the VTVM on the side of pattern **B**.
When cutting pattern **B**, connect the VTVM on the side of pattern **A**.



**FLAT B/W TV-FM STEREO/AM
RECEIVER**

SONY®

English
84D0507-2
Printed in Japan
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